

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:909:

GAATTCCGCC TTCATGGCCT AGTCCCTGAA	AAAAAAAAAA	GAAAAAAA	ATTTAAATAG	60
AGGAAATACT AGCTAAGTTT AATGTAGGCC	AGTTCTAAA	TAATGATTAA	TTGCTGCTGT	120
TGTTACATAA	TTTTCTAAA	TATTTAAAG	ATTGCACACT	180
			GTCTGCTCGT	
			AGGCCATGAA	

(2) INFORMATION FOR SEQ ID NO:910:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 387 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:910:

TACCTGCAGT TGTACCGGGT CACATGTGAC	CAAACCTACC	TGCTCCGATC	CCTGGATTAC	60
GTAAAAAGAA CACTTCGGAA TCTGAATGGC	CGCAGGGTCA	CCTTCCTCTG	TGGGGATGCT	120
GGCCCCCTGG CTGTTGGAGC TGTGATTAT	CACAACTCA	GAAGTGACTG	TGAGTCCCAG	180
GAATGTGTC CAAAGTGAGT TTTAGAACGT	GAAACATTTT	CTCCCAATTC	CCAGTGGAAAG	240
CTCTTGCTGT AGAAAAGATAT TCAGAAAGGA	AACTATTTT	CCATTCATCC	ATTGTTGTAA	300
ACAGATCACT CCAAAATGTT AATCTTGAGC	ATAGTGGTGG	GATCATATGC	CCTCTTTTA	360
TCCAAGCATG TGTGTGCCGG TCTCGAG				387

(2) INFORMATION FOR SEQ ID NO:911:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 428 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:911:

GAATTCCGCC TTCATGGCCT AGTGTCTTGA	CAATGGTTGA	GCTGGTTGG	ATCACAGGAA	60
CATTTTATTG ATAACGATGG	AAGGAAAAAA	CAGTGCCTGTA	ATAAGTCGCT	120
TGGGGTGTAA TTAAAAGAAT	AATGGGAAAG	TGCTACTGGG	AAGGCAAACA	180
ACTCTACAGA CAGGGATTCT	CCTATTGGCC	ATTTAGAAA	CATTCCCCAG	240
ATTATCCAAG TGGAGAGAAC	CAGAGTCAGA	CCCATTTCT	GCAACATGAG	300
CAGATGAGAT ACTGAAGGTT	TGAAGTCAGA	AGGCCCACAG	AGCAGCGCTC	360
ATATCACAAA GAAACCATAA	GATTCTCCAT	TGATGGCAGT	AAGATCAGAA	420
AACTCGAG			AGCAAAAGGC	

(2) INFORMATION FOR SEQ ID NO:912:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 357 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:912:

GAATTCGGCC	TTCATGGCCT	AGAAAACCAA	ATACTGCATG	TTCTCACTCA	TAGGTGGAA	60
CTAAACAATG	AGAACACTTG	GACACAGGGC	TGGAACACC	ACAACCTTCTT	TTTCAGTTCA	120
TAACTCATAG	TCCACGATCC	ATGTGCTCTT	TGACTTGACT	TTTCTTAAAC	TCCTATTTA	180
TGTGCTTCTG	ACTTGCTTC	CCTCTTATT	TGTAATCCAC	ACTAGCCTCA	AAAGATGCAT	240
GAACTGTGAA	TTTCACCTTC	CAGGGCCATG	GATAGTTGAA	CATCTAGTAG	TGAATTTCCT	300
CTTTCAGAAG	ATAAATAAAAT	TCATTCATTC	CCCTGGATCT	AGAAGGACAC	ACTCGAG	357

(2) INFORMATION FOR SEQ ID NO:913:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:913:

CAGCCTGGGT	GGCAGAGCAA	GACTCCATT	CAAAAAAAA	AAAAAAAAGC	CCAAGTCACT	60
TGCTGTTCT	GGATCCAGTA	ACGCTGCC	AAATTGATT	CAGTCACCTC	ACATACTTAA	120
CATTCTGGCT	TTCCCTTCCT	CTGTTCTGG	CATCTGGAGA	TTTCCCTTTT	TTGTGTGTGA	180
GCTCATTAT	GGTTATCTGT	TGTTATGTT	AATACAACCA	TTCCTGGCTG	AGGCTGCCAC	240
ATCTAGAGCT	GGTAAACTCG	AG				262

(2) INFORMATION FOR SEQ ID NO:914:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 471 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:914:

GAATTCGGCC	TTATGGCCTA	GTGATATGTC	ATAATCCCTT	CTGTGGCTG	GGCCCACATA	60
AGGAGAGTCA	AATCACTTGG	GTGCTGGAA	GAGGCACATG	TCACACGTGC	AAGAAGGTCC	120
AAGGATGAGA	TTAAAAATT	CACAAAGGTC	CAAATTCTAG	GGCCAGACA	GAAGAGAAGA	180
GTCACATCAT	CTAGATGATG	AATGAAAAGA	TATGTCATTA	TTCTCCTTG	GGCAGTGCTT	240
CTGCAGAAAA	GTGACACCTT	CTAGGTGTTG	GACTCAGCAA	TATATCACAA	TGTCTGCAGT	300
ATTTTGAAG	GAGACGAGAG	TCACCAATTAC	TTAGGTGCTA	GGCCAGCAA	TACATCTCAA	360
GCACCTCTTG	GGCAAAGCCC	AAGCACTAAA	AAAGAGTCAC	ATTACCTAGG	TTCTGGGTAT	420
AGCAATATGT	CACAAATGCC	CCTAAGAAGA	GGGCCAGGA	AAAGACTCGA	G	471

(2) INFORMATION FOR SEQ ID NO:915:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 452 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:915:

GAATTGGGCC TTCATGGCCT AGAGTGCCTG ACCTTCCTG TTCAAGAATT TATAAGATT	60
CCTAACAGCA ATTCTAGAAA AAGGATAAAC ACCTCCACTT GGCTTCAGA AGCCTCCAGC	120
ATCTGGCCA AGCTAATACA CCCTAAAC TAATCTGGTT ATAGCCCAGC CCCTCATTT	180
ACAAAGAAAA CTGAGACCCC TGCTATCTA TTAACTCGCT CCAACCAAAC ACATCATCTA	240
TCCCCCTCTC TCCTCCAGAT AACACTCACT TACCAGGCTA CAGTGAGGTC CACGTCTTG	300
ATATGAGGCT CCTGTCCACA AGTTGGTAA CCTTCATCTG CCTCATCACC AGTGAGCACC	360
CAGCACTTAG CACTGTGCCG GACACAGAAA TGAACACTCT GCTCCTCCGG GCCGGCGTGG	420
GTGCGCCGCT CGGGCACCG GCAGCGCTCG AG	452

(2) INFORMATION FOR SEQ ID NO:916:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 463 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:916:

GAATTGGGCC TTCATGGCCT ACAAAATGGTT GGTTTATGTT ATGATAGCAA TTTCTGCAT	60
AGCATCAGCA ATGAGTCTGT ACAACTGTCT TGCTGCACTA ATTCTATAAGA TACCATATGG	120
ACAATGACG ATTGCATGTC GTGCAAAAAA CATGGAAGTG AGACTTATT TTCTCTCTGG	180
ACTGTGCATA GCAGTAGCTG TTGTTGGGC TGTTGTTGGA AATGAAGACA GGTGGGCTTG	240
GATTTACAG GATATCTGG GGATTGCTTT CTGTCGAAT TTAATTAAAA CACTGAAGTT	300
GCCCAACTTC AAGTCATGTG TGATACTTCT AGGCCCTCTC CTCCCTATG ATGTATTTT	360
TGTTTCATA ACCACATTCA TCACAAAGAA TGGTGGAGAGT ATCATGGTTG AACTCGCAGC	420
TGGACCTTT GGAAATAATG AAAAGAATGA TGAAATCTC GAG	463

(2) INFORMATION FOR SEQ ID NO:917:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:917:

GAATTGGGCC TTCATGGCCT AACGTACTTG AAAAGGTTT CCTTTACACT TCCAGGACCA	60
AACAGCAACT TCCTGCCACA CACTCCACC CTATCACTGG GAGAAATCCT TTTCTGGACA	120
TGAGCCTTG ACCTGGGTGG GGCAAGAAGA ACCACAAACT CCATCTCCA ATAGAACTTT	180
GAAATTCACT CAGCTTTCC TTTCATGCTG TTGTTGCCT GCTTGTGCA CTCCCTGC	240
CCCAGAACTG CAAGATTTT AGCTTCACCC CTTTCTGAGA GTAATGTTAT CTTTATCAG	300
AATCAGTATC AGTCCCCCTG TATTCTGTGC TTTCATCGAAT TTGCAAGACT GACCTTTT	360
AAGCATTTAA TTCACTCCCA GAATCTCGAG	390

(2) INFORMATION FOR SEQ ID NO:918:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:918:

GAATTCCGCT	TCATGGCCTA	CACTGACAAT	GAACAAAACC	ACCAACCCAC	ACAAATGAGT	60
GATGAGGAAG	AGGATGATGA	TGGCTGTGAC	CTTTTGCTG	ACTCTGAGAA	GGAGGAGGAA	120
GATATTGAGG	ACATTGAAGA	AAATACTAGA	CCTAAAGAA	GCAGACCTAC	ATCGTTGCA	180
GATGAGCTGG	CTGCCCGCAT	CAAGGGGGAT	GCCATGGTC	GAGTGGACGA	GGAGCCGACA	240
ACCTTACCCCT	CAGGAGAACG	AAAACCTCGG	AAGACACTCA	AAGAGAACAA	GGAAAGGAGA	300
ACTCCTTCAG	ACGAGTCTTC	ATCATCCAAA	CCTGGAAAGA	AAATCCCAGC	AGCTCTCGAG	360

(2) INFORMATION FOR SEQ ID NO:919:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 279 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:919:

GAATTCCGCC	AAAGAGGCCT	AGTGCTATTG	AAACATTGGT	AACAGCAATT	TCTTTAATTA	60
AACAATCCA	AGTCTCTGCA	GATGATCGTT	GCAAAGTTCT	TATTAGCTCT	CTGCAGGATT	120
GCCTTCATGG	AATCGAGTC	AACTCCTATG	GGTCTGGATC	CAGACGTGAA	CGATCAAGAG	180
AACGGGACCA	TAGTAGATCA	CGGGAAAAGA	GTCGTCGCCA	AAAATCTCGG	AGTAGAGATC	240
GCCACGATGA	CTATTACAGA	GAGAGAACGCA	GAGGTCGAG			279

(2) INFORMATION FOR SEQ ID NO:920:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 470 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:920:

GAATTCCGCC	TTCATGGCCT	ACAGAACTTG	AAGCCATCAA	TAAAAGAGTA	AAAGACACTA	60
TGGCACGATC	AGAAGATTG	GACAATTCCA	TTGATAAAAAC	AGAAGCTGGA	ATTAAGGAGC	120
TTCAGAAAGAG	TATGGAGCGC	TGAAAAAATA	TGGAAAAAGA	ACATATGGAT	GCTATAAATC	180
ATGATACTAA	AGAACTGGAA	AAGATGACAA	ATCGGCAAGG	CATGCTATTG	AAGAAGAAAG	240
AAGAGTGTAT	GAAGAAATT	CGAGAACTTG	GATCACTTCC	CCAGGAAGCA	TTTGAAAAGT	300
ACCAGACACT	GAGCTCAAA	CAGTTGTTTC	AAAAACTTGA	GCAGTGCAAC	ACAGAATTAA	360
AGAAGTACAG	CCATGTTAAC	AAAAAGGCTT	TGGATCAGTT	TGTAATTTC	TCCGAGCAGA	420
AAGAAAAGTT	AATAAACGT	CAAGAACAGT	TAGATAGGG	CCCACTCGAG		470

(2) INFORMATION FOR SEQ ID NO:921:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 455 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:921:

GAATTCCGCC	TTCATGGCCT	AGCAGTGGCG	TTGGAAGGAG	ACGCAGGGGG	GCAGTGGCGT	60
TGGAAGGAGA	AACGGGAGGG	CAGTGGCGT	GGAACGGGGG	CAGTGGCGC	GGAAAGGGGAC	120
GCGGAGGGGC	AGTGGCGTTG	GAAGGAGAGA	CCAGGGCCCG	GGGGCTGCTT	CTTGTAAGG	180
GCCAAGCTGT	GAGGACTTCG	GGCTTGC	CCGCTTTGCT	CTATGTC	TCTCCTCTT	240
TGTTTTGTTT	TTCTCAAACC	CTTTAAAAAC	GTGAAAACCA	TTTCTAGCTT	GGGGGCCCTA	300
TAAAAATAGG	CCTCGCTGGC	CCTAGTTGA	TGACCCCCTGA	AACAGACAAT	TCAAGGAGAA	360
GCTTAGTGAA	AGAGTCAC	ATAGCTTCAT	AAAAATAAGA	GAAGATATAG	TATCCATAAA	420
ATAATAATAA	GATTGTATCC	ATGAGGTTCC	TCGAG			455

(2) INFORMATION FOR SEQ ID NO:922:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:922:

GACATGACCC	TGGCACAAAGA	ACAAATAGCG	AAGGATTTC	TTTCAGGGGA	AGAAGAGGAA	60
GAGACGCAAT	CATCTGCTGA	CGACCTCACC	CCGTCCTGCA	CCTCCCACGA	GGCCTCCGAC	120
CTCTCCCTA	ACCGGAGTGG	ATCTCGTTTC	CTGGCTGATG	AAGACAGAGA	GCCTGGCTCT	180
TCTGCCTCCT	CCGACACCGA	GGAGGACTCT	CTTCCTGCCA	ACAAATGTAA	GAAGGAGATC	240
ATGGTGGGAC	CTCAGTTCCA	AGCTGACCTC	AGCAACCTGC	ACTGAAACCG	GCACTGTGAG	300
AAGATCTACG	AGAACGAAGA	CAAGCTACTC	GAG			333

(2) INFORMATION FOR SEQ ID NO:923:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:923:

GAATTCCGCC	TTCATGGCCT	AAGCAGCCTT	TCACCAGGGC	TCCATCTGTG	AAGAGTCTCA	60
GCCATGACTT	TGAGCTGAGC	TTGGGAGAAG	TAAAGCACT	GTAAAGGCCA	GCCCTTGCCC	120
CTCAGACCTG	CCATGAAAGG	AATGAGCCCT	AGACTGACTC	CTGCAGCACC	CCGGGACAG	180
GCTGGGACCA	GCTGTTGTC	TCCAGGTGTC	AGAGTCCCTC	CTCCTCCTCC	AACCTCTCCA	240
TTGAATTCTA	GACCTGCCTC	GAG				263

(2) INFORMATION FOR SEQ ID NO:924:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 467 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:924:

ATTTTGGGGA CCAAGAACCT GTACAAGGAT TTGTGATGAA CTTTTCCAAT GGGGAAATTA	60
TCGACATCTT CAAGCCAGTG CGCAAGCACT TTGATATGCC TCATGATATT GTTGCATCTG	120
AAGATGGAC TGTGTACATT GGAGATGCTC ATACCAACAC CGTGTGGAAG TTCACCTTGA	180
CTGAGAAAATT GGAACATCGA TCAGTTAAAA AGGCTGGCAT TGAGGTCCAG GAAATCAAAG	240
AAGCCGAGGC AGTTGTTGAA ACCAAAATGG AGAACAAACC CACCTCCTCA GAATTGCAGA	300
AGATGCAAGA GAAACAGAAA CTGATCAAAG AGCCAGGCTC GGGAGTGCTC GTTGTCTCA	360
TTACAACCT TCTGGTTATT CCGGTGGTT GCCTGCTGGC CATTGCCATA TTTATTCGGT	420
GGAAAAAAATC AAGGGCCTT GGAGCAGATT CTGAACACAA ACTCGAG	467

(2) INFORMATION FOR SEQ ID NO:925:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 310 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:925:

GCCATCCTCT GACAAAAGAA AGAATATGTA CTCAGGTGGA GAGAATGTT AGATGAATGG	60
GGATACGCC CATGATGGAG GTCACGGAGG AGGAGGACAT GGGGATTGTC AAGAATTGCA	120
GCGAACTCGA CGGTTCTGTC GTGACTAAAT TAAAGACATA AAGAGGAAAG CGCCATTTT	180
TGCCAGTGT TTTTATGATG CTTAAATAT TCAAGCTCTT TCGGCAATTG TCTTCATTAA	240
TCTGGCAACT GTAACAAATG CTATCACTTT TGGAGGACTG CTTGGGGATG CCACTGACAA	300
CATGCTCGAG	310

(2) INFORMATION FOR SEQ ID NO:926:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 287 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:926:

GAATTGGGCC TTCATGGCCT AGTGGAGACC TGGCCAAGGT ACAGAGAGCT GTGTGCATGC	60
TGAGCAACAC CACAGCCATT GCTGAGGCCT GGGCTCGCCT GGACCACAAG TTTGACCTGA	120
TGTATGCCAA ACGTGCTTTT GTTCACTGGT ACGTTGGGA GGGGATGGAG GAAGGTGAGT	180
TTTCAGAGGC CGGTGAGGAC ATGGCTGCC TTGAGAAGGA TTATGAGGAG GTTGGTGTGG	240
ATTCTGTTGA AGGAGAGGGT GAGGAAGAAG GAGAGGAAAA CCTCGAG	287

(2) INFORMATION FOR SEQ ID NO:927:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 332 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:927:

CCGCGCACCA ACAACAGCAA CAACTCCACT GCGCCGGGCT GAGGAGCAGG ATTAGGAGC	60
--	----

TCGCGAATAA TATGAAAGGG ATCCGCAAAG GGGAAAGCCG AGCAAAGGAA TCCAAACCC	120
GGGAGCCTGG CAAGCAGA TGCGCTAAAT GTGGCCGCT AGACTTCATC CTGATGAAGA	180
AAATGGGAT TAAAAGTGGA TTACGTTT GGAACCTCGT CTTTTATTG ACGGTGTCTT	240
GTGTGAAGG TAGGTCTGCT TTGGGGTCC CCTCCGCTT GGATGGAGT GGGCTGACTT	300
GTAGATGGAG AGAGGCTGGC AGCTTACTCG AG	332

(2) INFORMATION FOR SEQ ID NO:928:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 330 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:928:

AGCCTGCCAT CCCAGGCTTC AGATTGGAGC CGATACTCAA GCAGCTTACT GGAATCCGTC	60
TCTGTTCTG GAACACTAAA TGAGGCTGTT GTAATGACTC CATTTTCATC GGAACCTCAA	120
GGAATTTCAG AACAGACCCCT CGTGGAGCTG TCCAAAGGA AGCCCTCCCC GCATCCAGA	180
GCCTGGTTG TGTCTCTGA TGGAAGGCCA GTTGCAACAAG TGAGGCACTC CTTTATAGAC	240
CTGAAAAAGG GCAAGAGAAC CCAGAGCAAT GACACCAGTC TGGACTCTGG GGTGGACATG	300
AATGAGCTTC ACTCAACTAG AAAGCTCGAG	330

(2) INFORMATION FOR SEQ ID NO:929:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 266 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:929:

GAATTCCGCC TTCATGGCCT AGTGAGTGGG TGATATCTGT AAAGTGCATT GTCTTCAGTT	60
GTAGGTGGGG TAGGTGTAAG GGAATGGCGG GGGGGCATGC AATATGGGTG AGGGAGGGCA	120
GTGCCCTCT CATCCACAG CTGAGCCCC CCCAAACCT GTCTGGACTT TGATCAGGAT	180
AAGAACGTTG CAGGGCGAGG CAAGTTCTG AAGCCGAAGA GGTCTGGCT GGGGCCTACT	240
GGAGAAAGGG CATAGACTGG CTCGAG	266

(2) INFORMATION FOR SEQ ID NO:930:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 319 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:930:

GCGAAAATAA CCTTTCTAA TGAGGGATGTC TGATACTGTT ACTGTAAAAG ATGAAACTGC	60
AACAATGAAG GATTTGGAGG CAGAACTGAA AGATACAAAC AGAGTTGAAA ATCTTATCAA	120
ATCAGAAAAC TATGGGAAGA TTTGGTAGA GAAGAATGAA CATTGTATTG AGAACAAATAT	180
AGATTTGCAG GAGAAAATTC AGATCCAGTT AACACAATCA TTTGAGAAAG AAGAGAAGCC	240

CTCAAAAGAT GAAGCAGAAA AAGAAAAGGC CAGTGATAAG TTGCCAGAA AAATGTTATC	300
AAGAGATCCC AGTCTCGAG	319

(2) INFORMATION FOR SEQ ID NO:931:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:931:

GAATTCCGCC TTCATGGCCT AAAGAAGAGC AGGAAGTCCA ATGTGGCCGA AGCAGAGTGA	60
GCAAGGGCAG GAGTACCAAGA GGAGGAGATA GGACGCCAAA GAGTTAACAA AAGGAGGAAT	120
GGAGAA<CTT TCGATCAAAA ATAAAATAAT ACATAACCAT GGTTATGTTGG GGTGGGGTTG	180
TCTCTTCTT TTGGAAAGAA GAAGGGCTTT CTGGGAATAG ATGGCCAGGC CAGGCAGCAA	240
GCTGCTAAC TCGAG	255

(2) INFORMATION FOR SEQ ID NO:932:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 588 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:932:

GAATTCCGCC TTCATGGCCT AGCATTTCAGT GCAAGCGCCA GGCAGATTGT	60
GTCTAAGGAT ACGATTTGA ACCATATGGG CAGTGTACAA AATATGAAAC AACTGTTCC	120
ACACTTGAC CTGATCAAGG AGCAGTGCTT CTCCATTGTT TTTGCAGAGA AATGTTTTTC	180
ATTTCCCGTG TGTTTCCATT TCCTTCTGAA ATTCTGATTT TATCCATTTC TTTAAGGCTC	240
CTCTTATCT CTTTCTTAA GGCACTGTTG CTATGGCACT TTCTATAAC CTTTCATTC	300
CTGTGTACAG TAGCTAAAAA TTGCAGTGAT TGAGCATAAC CTACTTGTT GTATAAAATTA	360
TTGAAATCCA TTGCAACCT GTAGAAATGG ACTTAAAAGT ACTGCTGGAC AGGCATGTGT	420
GCTCAAAGTA CATTGATTGC TCAAATATAA GGAAATGGCC CAATGAACGT GGTTGTGGGA	480
GGGGAAAGAG GAAACAGAGC TAGTCAGATG TGAATTGTAT CTGTTGTAAT AACATGTTA	540
AAACAAACAA AAATTGTTAT TTTCTTTTC CTTCGGTCAG AGCTCGAG	588

(2) INFORMATION FOR SEQ ID NO:933:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 520 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:933:

GAATTCCGCC TTCATGGCCT AGGGGAAGGA AAGGCCGTG TGGAGGAGCA TGGAGGCCATC	60
TGCTCATGAA GGAAAGGCAG CGATGGGCAG GAGGTGTTGG GGCTTCCGTG CGACTCCAGA	120
GGCCAAGCCC AGAGCTGTGT GTGGAGCCCA TGAGGAGCAG AGATTTCCA GCAAAGGTGC	180

ATTTGTGGGC CTCCAGATGG AGGCCCTACC TTCTCAGCAA	GGGAAGAAAC CCCTCTCTCT	240
TTGACCTCTC TCCCCTGCAC AATTAGAAGG TTCTGAAGAG	TGACTTCATT ATTGGTGGGT	300
GAGTATATGT TTATTGGGCA TCTGTGGTGT GCCAGATGTT	GTGTTGAGTG CTGGGTGCAG	360
AGGTAATGG GATATCTGGT TACCCCCCAC ATGGGCTTA	TAGTGGGGA AGTGGGGAG	420
TAAGTCAGGA CACACGTAAG CAAACGCTAG AA'TGGATAGA	TATTGTGATT AGAGCATTGG	480
AGAGAAAGAA CAGGATGTTT CAAGAAAGGA CAGTCTCGAG		520

(2) INFORMATION FOR SEQ ID NO:934:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 259 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:934:

GAATTCGGCC TTCATGGCCT ACTTTTTTTC TCAAGGTGCA ATGAAAGCCT TCCACACTT	60
CTGTGTTGTC CTTCTGGTGT TTGGGAGTGT CTCGAAGCC AAGTTTGATG ATTTTGAGGA	120
TGAGGAGGAC ATAGTAGAGT ATGATGATAA TGACTTCGCT GAATTGAGG ATGTCATGGA	180
AGACTCTGTT ACTGAATCTC CTCAACGGGT CATAATCACT GAAGATGATG AAGATGAGAC	240
CACTGGGAG TTTCTCGAG	259

(2) INFORMATION FOR SEQ ID NO:935:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 413 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:935:

AACAAAATGA AACAAACAAA AGACAGAGGC CAAGAAAGGC TAAGTAACCT GCCTAACACT	60
ATATAATAAG TCACAGGGCA GGGAAATAAAA CTCAGTTTC CTGACTTCCA TTAAGGTTGT	120
CTTTTCCCTCA CTCCACATTG CCTGTCATTT TTTTCTGAT TATTCTTAAG AAGGAGTGAG	180
GAGAGAGAAT AGAGAAACAG ATTTTTTCT CGGACTATCT TTTCTGTAGG GAAAAACAC	240
TGAAGCCCTA TTAGCCTGGA AGCTGCTTAT AGGGTTACAA TACTGTGTGT CCTGCAGAAC	300
CTGTGAAGCT CTTCTGTATT TTCTGGACTT TCCTGGAAAG TCATTTAGAT ATAATGTAAT	360
AAATATAATA AAGTAGTTA GATATAATGA GTTTCATAGGCTTCCTC GAG	413

(2) INFORMATION FOR SEQ ID NO:936:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 259 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:936:

GAATTCGGCC TTCATGGCCT ACCCTGAGAG TAAGCCAAAA AAGGAAGAAA AAAATATGGA	60
AGTAAATATG AAAGAGTGGA TTTACGATA TGCTGAACAA CAAAATGAAG AAGAAAAGAA	120

TGAGAATTCT AAAAGTTAG AAGAGGGAGGA AAAATTCAC CCTAATGAAA GGTACTTACA	180
TCTTCCAGCA AAACTGCTGG ATCCAAAAGA ACAAGCAGCT ACCTTTAAC TAGAAAAAAA	240
CAAGCAGGGC CGTCTCGAG	259

(2) INFORMATION FOR SEQ ID NO:937:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:937:

GCGAAACCGT CGTCAGCTCC AAGAAGGCAC AGGAGAACAT GAAGCAAAGG CACGAGAACG	60
AAACGCAAC CTTAGAAAAA CAAATAAGTG ACCTTAAAAA TGAAATTGCT GAACTTCAGG	120
GGCAAGCAGC AGTGCTCAAG GAGGCACATC ATGAGGCCAC TTGCAGGCAT GAGGAGGAGA	180
AAAAACAACT GCAAGTGAAG CTTGAGGAGG AAAAGACTCA CCTGCAGGAG AAGCTGAGGC	240
TGCAACATAA GAGGGAGCTC GAG	263

(2) INFORMATION FOR SEQ ID NO:938:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 384 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:938:

GAATTCGGCT TCATGGCCTA TTCCACTACT AGGCTGACAT GCAAAATCCT AAGAGAAGTC	60
AGTCTTCAG GATTGATCCT GGCAATTGTTG CTTGCTGTT CCCGTGCTG GAGCACCTGT	120
CCCAGCTCCC CTGTGGCTGG CTCCCTCTCA CCATCCAGGG TTCAGTCAA ATATCTCCTT	180
CAAAGAGAGA TCTTCCAGGG TCACCTAATC CAGAGAGTGC CCTCTATGGT TGCCACATCC	240
CCCCGACCCA CCACCCACCA CCCCCCACTT CAACTCCTTT ATGGCACCTG CCCCTCCCTG	300
AAATTCTCAC TGTGCTTAT TTGTTATCTA GCCCTCTCAT CAGAATGTAG ATCCACTGGT	360
GACAGGGGAC TTGTGTGCCT CGAG	384

(2) INFORMATION FOR SEQ ID NO:939:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:939:

GAATTGGGCC TCCATGGCCT AGTTGTGTTT TTTGGGCTTG CTATTAATGC AAACCTCTGAT	60
TGCAAATGGA TGTCTATGTTT CATACTTTTT TTATCAGGAA AAAAGCAGCA AGCCTTCAGG	120
TGTTCCAGTG ATGCCTGACA CAATTGAGCT GGACTTTATG CTGCTCTTAA CAGTAAGAGG	180
TGTTGCTATG TATGTGGGGA CTATGTGCAC TGCGGTCTAA GACAGTGACC TCAACAATAT	240
TAGCTTGTCA CAAACCCCTCG AC	262

(2) INFORMATION FOR SEQ ID NO:940:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 300 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:940:

GAATTCGGCC TTCATGGCCT AGTGGAGGAC TGCTTTGTG AACATGAGAA AGCAGGCC	60
GGTCCCTATG TATTTGGTC TTATTTACAT CCTTCTTAA GCCCAGTGGC TCCTCAGCAT	120
ACTCTTAAAC TAATCACTTA TGTTAAAAG ACCAAAAAGA CTTTCTCCA TGGTGGGTG	180
ACAGGTCTTA GAAGGACAAT GTGCATATTAA CGACAAACAC AAAGAAACTA TACCATAACC	240
CAAGGCTGAA AATAATGTAG AAAACTTAT TTTTGTTCAGTACAGAGC AGAACTCGAG	300

(2) INFORMATION FOR SEQ ID NO:941:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 194 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:941:

GAATTCGGCC TTCATGGCCT AGTATATCTG AAAAGTACAC TGTGTTTGAAATTATAAAAT	60
TTTCATTCTG AATGAGGTTT CTTTTTTGAA TTTTCTTAA AAAAAAAAAAA CAACCTGCTT	120
TGATTGCTT TACATTCCTT GCCCTCCATT TTTCTTATTAA TATTGTAAAC ATTAGAAAAA	180
TGAACACCC CGAG	194

(2) INFORMATION FOR SEQ ID NO:942:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 581 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:942:

GAATTCGGCC TTCATGGCCT AGTGAGGATA AAGATAAGGA ACAGGCCAGG CACAGTAGCT	60
CACGCCCTGTA ATCCCAGCAC TCTGAGAGGC CGAGGCAGGT GGATCACATG GGGCCAGGAG	120
TTTGAGACCA GCCTGGACAA CATGGTAAA CCCCCGTCTCT ACTAAAAATA GCCAGGTGTG	180
GTGGCACACA CCTGTAAATCC TAGTCACTTG GGAGGCAAGG TGGGAAGTTT GTTTGAACCA	240
GGAGGGCAGCG GTTGCAGTGA GTCAAGATCA TGCCACTGCA CTCCAGCCTG GGTGACAGAG	300
TACGACTCTG TCCCAAAAAA AAAAAAAAG ATAAGGAACA GACCCAACCC GAATCCACAC	360
AACCTGACAC ACAGGAAAGT CTTGCCCCATC CATCCACCTA CCTCCCCAAC CAGACTAGTG	420
AAGCTATAAC CCCAGAGAGA TACCTTTGAT GTGAGCACTG TCCAGCATGG GCACCAAAGGC	480
ATTCACCTGC TCCAGGAGTG CAACCTGGGA AAGGATAAAC TGCTCCTCTA AAGCAAAAT	540
GGACAAGATA GTTGCAGTGA AGCAAACCTG GGCATTGCTA G	581

(2) INFORMATION FOR SEQ ID NO:943:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:943:

GAATTCCGGCC TTCATGGCCT AAAACAGGCA ACAATGACCT TTTATTTTCT GTTTGTCCCC	60
ACCTCCCCAG CCTTCCACCT CCTGTTCTTC CTACCTTCTT CCTTTTGAC TAAATAATCC	120
CCACCTCCCT TGATCATACA GTGAGGCTAC AGTGACTGAG GGGAGAATCC CCTCCTGTTTC	180
ACTCTCCCAA CCCTGTCCA GCCCCTCAGC TTCCCAGACC CTCATGCAGT TGGTTGTAAA	240
TTCTCCCACT GAGCTCGAG	259

(2) INFORMATION FOR SEQ ID NO:944:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:944:

GAATTCCGGCC TTCATGGCCT AAAACCTCAC GTGGCCTCTG ATTTCATTTGT GGGTGCATCC	60
ACAGGTGGCC CGAGCTGTT TCAGCTGC TCCAAGGATT GAGACCCAAG TCATCATGAA	120
AAAGGCCAA GTACAGTCTT AATGCGATAA ATCCACTAGC TAAGACGTG AGTGCCAAGA	180
CCAGCCTTCC AGCCGAGGTT TGACAAAGT CTCAGGTTCC CGTGACTCAG GGTAAGGTGC	240
TGGGGCTGCC AGAGGACCTG CCCAGCAAG ATTTTGTCA AGAGCGAGAC TCCATCAGCC	300
CAGGCAGACG GGAGCAGGTT CTGGCCAGC GTAGACAGCA GCAACAGCA GCTCTCGAG	360

(2) INFORMATION FOR SEQ ID NO:945:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:945:

GAATTCCGGCC TTCATGGCCT AGTGCAGGAG ACGCCCTCAC CGGAGATGGG GACCGAGTCC	60
ACACGGCTCT CACTGCAAAT GCTTTGGAA AAACAAAGACA GTGTACTTTG TGATCATATA	120
AAACAGCAAA ATAAAATAGT CGTGGCACA GGGCCAGTGA TTCTGCAGTT AGAGCCGTGT	180
GGACTCGGTC CCCTCTCCGG CTCGAG	206

(2) INFORMATION FOR SEQ ID NO:946:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(iii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:946:

GAATTCGGCC TTCATGGCCT AGGTTCCCCG GCGTGGCATG GATGATGACA GAGGCCCTAG	60
ACGTGGTCT GAGGAAGATA GTTCTCTCG TCGTGGGGCA GACGATGACC GGCCTTCCTG	120
GCGTAACACA GATGATGACA GGCCTCCAG ACGAATTGCC GATCAAGACA GGGGAAACTG	180
GCGTCATGCC GATGATGACA GACCACCTAG ACGAGGACTG GATGAGGACA GAGGAAGCTG	240
GCAGAACAGCT GATGAGGACA AAGGACCTCG AG	272

(2) INFORMATION FOR SEQ ID NO:947:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:947:

GTTTTGCTTA GATTTGCTT TGGTTAGGTT GCGTTTGGG GTTTGCCTTT TTTTGTGTC	60
GCTTAAATGC AATTGGTTG TAAAGATTG ATTCCCTTGT GTTCATCTGT TCCGCTCTC	120
AGCGGTCCAT CTCAGCGTCT CCCTTCAGGA ACCGCTGAGT GTCCTCTCTT AACATCCAAG	180
CCTTTTAATG AAATCGTACT GAAATCTGTA TCAGCTAAGA GTCCTCCAAT CCTGGTCCC	240
TTAACTCCAA GTGCCTTTT GACAGTGACA ACAGACAGTC CCTCGGCACT CGAG	294

(2) INFORMATION FOR SEQ ID NO:948:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 462 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:948:

GAATTAGAAT CTCTAAAGAA ACAGGAGGA CTTCTAAAAA ATATTCAGGT CTCACATCAG	60
GAATTTCAA AAATGAAACA ATCTAATAAT GAAGCTAACT TAAGAGAAGA AGTTTTGAAG	120
AATTTCAGCTA CTGCATATGA CAACTTGTT GAACTTGTAG CTAATTGAA GGAAGGCACA	180
AAGTTTTACA ATGAGTTGAC TGAAATCCTG GTCAGGTCC AGAACAAATG CAGTGATATA	240
GTTTTGAC CGAAGACAGA AAGAGATGAA CTCTAAAGG ACTTGAAACA AAGCATGCC	300
AGAGAACCTA GTGCTCTTC AATTCTACA CCTCGCTATC AGTCCTCACC AGCAGGAGGA	360
CATGCCACCA CCTCTCAAC TCCAGGCCA AGAACCATGC CGCCTACTAA GCCCCAGCCC	420
CCAGCCAGGC CTCCACCACT TGTGCTTCCA GCGTATCTCG AG	462

(2) INFORMATION FOR SEQ ID NO:949:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 624 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:949:

GAATTCCGCC	TTCATGGCCT	ACTCAAAGAC	ACAACAAATA	GCATGGTAGA	ATCAATTAAA	60
CACTGCATIG	TGTTGCTGCA	GAITGCCAAA	AGTACTATTA	ATCCCCTAGA	TGCAATATAT	120
CAACCTAGTC	CTTTGGAACC	TGTGATCAGC	ACAATGCCTT	CCCAGACTGT	GTTACCTCCA	180
GAACCTGTC	AGTTGCTAA	GTCAGAGCAG	CCTCATCTT	CCCTACCGAT	TGGACCTGTG	240
TTGGCTACCT	TGGGACATCA	TCAGACTCCT	ACACCAAATA	GTACAGGCAG	TGCCATTCA	300
CCACCGAGTA	GCAGTCTCAC	TTCTCCAAGC	CACGTGAAC	TGTCTCCAAA	TACAGTCCC	360
GAGTTCTCTT	ACTCCAGCAG	TGAAGATGAA	TTTTATGATG	CTGATGAATT	CCATCAAAGT	420
GGCTCATCCC	CAAAGGCCCT	AATAAGATTCT	TCTGGATCTG	CCTCAGTCT	GACACACAGC	480
AGCTCGGGAA	ATAGTCTAAA	ACGCCAGAT	ACCACAGAAT	CACTTAATTC	TTCCTTGTC	540
AATGGAACAA	GTGATGCTGA	CCTGTTGAT	TCACATGATG	ACAGAGATGA	TGATGGGAG	600
GCAGGGTCTG	TGGTGAAGCT	CGAG				624

(2) INFORMATION FOR SEQ ID NO:950:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:950:

GATTCTAGAC	CTGCCTCGAG	CACGCTTGG	GAAGCCCCGT	CTCTACTAAA	AATAACAAAT	60
TGGCCGGCA	TGGTGGCGA	TGCCGTGGT	CCCGGCTACT	CTGGAGGCTG	AGGCAGGAGA	120
ATCACTTGAG	CCCAGGAGGT	GGAGTTGAGG	TGAGCCGAGA	TCGTGCCATT	GCACTCCGC	180
CTGGGTGACA	GAGTGAAC	CCGTCTCAA	AAAAAAAAAA	AAGCATTAC	GTCAATGTCA	240
AGAGAACCTG	CTACTAATGC	TTTCTTTGAT	AGGCAGTATG	ATAGGTTGGA	AAGAATATAA	300
ACTGGGATCA	AGCTGGGTT	CCACTTACCA	GCTGTACTAT	GTTGACCAAA	TTATTTAAC	360
TAACACTCGA	G					371

(2) INFORMATION FOR SEQ ID NO:951:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 283 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:951:

GCGATTGAAT	TCTAGGGTTT	TTTTTTTTTT	GGGATCCTGG	GTAAAATTTT	ATCCAAAAAA	60
CGGGATTTTT	TTTTTTTTAA	AAAAGGAAAT	TTGAATTCAA	AATTTTGGGC	AGCCCCGGCT	120
TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTGGTGGGTT	CTGAGTCTTC	180
ACTTTATTAC	TATGTCACCA	GAAGTCACCA	CCTTCACCTG	GTTCACCAACA	GATGGATGGA	240
TGTCATAAAG	GAGGGTGCCA	CGGGGCCACT	GGATTCACTC	GAG		283

(2) INFORMATION FOR SEQ ID NO:952:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 285 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:952:

GCTTGGCAGA	TGCTAACTTC	ATGGAAGATG	GTAAATAGGAA	CAGATACTGC	TCTCTGCC	60
TGCTTCTTGG	ATTCTTCAGC	TCCTACCGCT	GATTCGGATT	ATCCCCTTT	GACCCTCT	120
GGGATCCAGA	CTGCTGCCAG	GAGGCTGAGT	AGATAACCTCA	GTTATCTGTA	TGTTATTCT	180
GAGAGGCTTT	GGCGGATCCT	CTTCACTTGG	CATCCTGTGG	CATCCCTAGG	GTCTGGTGGT	240
AGCAGTAATA	CCAACAATGA	TATCTTACAT	CTGGAACAAAC	TCGAG		285

(2) INFORMATION FOR SEQ ID NO:953:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 614 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:953:

GAATTCCGCC	TTCATGGCCT	AATTCTAGAC	CTGCCTGTCT	TGAGAGGAAC	CTTCCCTGTG	60
CTGGCTCTG	TTGTTATCTG	TACCTAAGTT	ACTCAGTTCT	GAGTGCATGT	CTGGTAAATG	120
CTGGCCATT	CTTGAAAGTT	CTGACTCAGA	ATCGGCCCTCC	ATTAGAGAAC	TCAGTTCTCC	180
AAACCCAGTC	ATGATCTGCC	TTAAAATTGA	CCGAAGAGCC	ACTGATGATG	GCTCAACAAG	240
CTCATTCCTCA	GAACCTCTAC	GAAGAGGAAC	TGTTATGGTA	CTAACATAGG	TTCGAATACC	300
TGACCGCTCT	AAACGAGAAA	TGGTCCGGCG	AAAGCCCCCA	CTATTGCTTT	CAATAGTGAC	360
TGTATTTCT	GCTAGCCCTA	CTCTGGATCG	AGTTCTATT	GCAATACTAT	CCCGATCTCT	420
ATTTTCTCCA	GGACGATCC	TTCTCACTTG	AAGGTCCAST	GTGATTGTTG	GATGTCGTCG	480
TACAGCAGTT	GAGGATCTGC	TGGATTCTTC	TCCTTCTTCT	ACTGTTATT	TTGACACAAG	540
CCTTGAATTA	GAGAATGGGG	TATATGCAGT	ACCTCTGCGT	TCTCGTTCTC	TATCTTGTC	600
AAAAAAAGACT	CGAG					614

(2) INFORMATION FOR SEQ ID NO:954:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:954:

GAATTCCGCC	TTCATGGCCT	ACAAGGATT	CAGGATGTTC	TTCCCTCTGGA	CTGCTCTGTT	60
CTGGGGTGG	GTCATTTTT	ACTTGCTGCT	CAAGAGATCC	GGGAGAGAAA	TCACTTGGAA	120
GGACTTTGTC	AATAACTATC	TTCAAAAGG	AGTAGTAGAC	AGATTGGAAG	TCGTCAACAA	180
GGCTTTGTT	CGAGTGACCT	TTACACCAGG	AAAAACTCCT	GTTGATGGC	AATACGTTG	240
GTTTAATATT	GGCAGTGTGG	ACACCTTGA	ACGGAATCTG	AAACATTAC	AGCAGGCGCT	300
CGAG						304

(2) INFORMATION FOR SEQ ID NO:955:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:955:

GAATTCGGCC TTCATGGCCT AGTAGCTATT AATCTGTGGC TATGAAATGA TCAGAAATGC	60
TAAGTGAGAT CAATATTGT TTGGAAAAAA AATCTTGGGA ACAACCCAA GGGTTTCGC	120
TGTTGTTGTT TTTCTTTTC TATTTTGTN NACTTAGTCC TTTAGCTAGT GGATTTAATT	180
TTGTTGTCGCC TGCTTCATTT TGCAATAACA ATGCAGTAGA ATTTAAAATC TGGACGCTCG	240
AG	242

(2) INFORMATION FOR SEQ ID NO:956:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:956:

GCTGCGCTGT ACTTCAGATA CTTTTTCGA GGAACATTG TGATTTGTGG CATAAAGTAA	60
CTGTCTAAAG GAAATCTTCT GAGAGGATCT GGTCTTTTA TGAAAGGGGC AATTAAGGG	120
AAATGGAAGC AGATCTTTA AAGAAGGGAC ATTGAAATT AGCCCAGGAA TCATGTCCCG	180
CGAGTCCTGC TCTTTGTAC CTGGGCATAA TAGTCAGCCA CACAGAGCTA GAGTTAGTTC	240
AAGAATTGTC TTTCCTGATC GTGCTATATT TTGGAAACA CGCCGTACTC GAG	293

(2) INFORMATION FOR SEQ ID NO:957:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:957:

GCAAAGAATG GTAACGTGCT TATCATGGGA GTGTTTGAG AAACCTAGCC AAAGCTTCAG	60
CAGAAAATC CCCGAGAAAG ACCAGAGAGT TCTTCACCAC ACAATGTTG CTGCTCATCC	120
CTCTCATCAA ACAAGGCCAT TTGCAAGAG TTTGATGGG AAATCACTAG GCATCCACCC	180
TACAGTCTG GTTTGGCACC TTCTGACTTT TTGTTCCCTA ATCTTAAAAA AATTTTCAG	240
GGCAACTCTC GAG	253

(2) INFORMATION FOR SEQ ID NO:958:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 466 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:958:

GAATTCTGGCC	TTCATGGCCT	ACAACATCAG	CTCCTGTC	GTTCTCCAGC	TGCACGACCT	60
CAA	ACTACAA	CCTCAGCT	TCCCCGAGTC	TTCTGCTGCA	TGACCCCTCAA	120
AAGCTCTCT	CTGGGTGTCC	ACCTGTAGGG	ACCTCAAATT	AGAACGTCAG	CTCCTCCCAG	180
AGTCTTCAGC	TGCATGACCC	TCAATCTTAA	ACATCAGCTC	CTCTCCAGGT	CTGCAGCTCC	240
ATGACCCCTAA	AAATACATGA	GCAGCTCCTC	CCTGAATCTT	CAGCTGTACG	ACCCCTAAAC	300
TACAAACATCA	GCTCTGTCT	GCACCTCCAG	CTGCAGGGCC	CTCAAACTAG	AATAATCAGCT	360
CCTCCCCGAG	TCTTCAGCTG	CACGACCCCTC	AAACTAGAAC	ATCAGCTCT	GTACAGATTT	420
CCA	ACTGTAG	GGCCCTCAAA	CTAGAACATC	AGCTCCTCCC	CTCGAG	466

(2) INFORMATION FOR SEQ ID NO:959:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 137 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:959:

GGAGCATGTC	CTGTTATTTA	TTTAACTTTT	CCATTTCAT	TTTTTATTTG	GGTAAGATAA	60
TTGCTTATGA	TAAGCCTTGG	GTGTGGAGAG	CCGGTGCATA	CAGAGTGGCG	AGGCAAGCTT	120
CAATCTGCAG	TCTCGAG					137

(2) INFORMATION FOR SEQ ID NO:960:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:960:

GAATTCTGGCC	TTCATGGCCT	AGAGCCGCGG	CTCATGCGCG	GTGCACAGAG	GCTTGTTC	60
CATCTGTAAC	AACAGGAGGA	GGCCAGCCT	CGTGATGAGG	AATAGCAAGG	AGAGAATTCA	120
GCTCCAGTTC	AAAAGCTAC	AAAATCTGAG	ACTGTCATTG	CTTTTATAAG	GATTCCAGCT	180
TTCCCTCTG	GCCAGAAATG	TTCAGCCTGG	ACTCATTCAG	AAAAGATCGG	GCCCAGCACA	240
GGCAGCGTCA	GTGCAAACCT	CCCCCACCC	GCCTTCCACC	CATGTGTGTC	AACCCTACCC	300
CAGAAGGAAC	CCTCGAG					317

(2) INFORMATION FOR SEQ ID NO:961:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 470 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:961:

GAATTCTGGGC	TTCATGGCCT	ACTCTGCTCA	ACCTGCACAT	CACCCACCCAC	AGTCACCA	60
ACAAATTTCAG	ATGCAACTAC	AGCACGAATT	ACAAACAGCAA	GGCGATTCT	TTCAGCCTCA	120

TTTTCTAAAC	CCAGCCTTTT	TGCTCATTT	TCCTATGGCC	CCAGAAGCAC	TGCTGCAGTT	180
TCAGCAGCCT	CAGTTCTCT	TTCCATTITA	TATACCTGGG	ACGGAGTTCA	GCTTGGGCC	240
AGATTTGGGC	TTGCCAGGCT	CTGCCACATT	TGGGATGCC	GGCATGACAG	GAATGGCTGG	300
CTCTTGCTT	GAAGACCTAA	AGCAGCAGAT	TCAAACCCAA	CATCACGTTG	GTCAAACCTCA	360
ACTCCAGATA	CTACAGCAAC	AAGCACAAACA	ATACCAAGCC	ACACAGCCCC	AGCTGCAGCC	420
TCAAAAACAA	CAGCAGCAGC	CACCACCTCC	ACAGCAACAA	CAAGCTCGAG		470

(2) INFORMATION FOR SEQ ID NO:962:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 603 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:962:

GAATTCTGGCC	TTCATGGCCT	AGGAGAANGA	CGTGCTGGTG	AACGTGAACC	TGGTGGATAA	60
GGAGCGGGCA	GANAAAATG	TGGAGCTGCG	GAAGAAGAAC	CCTGACTACC	TGCCCTATGC	120
CGAGGACGAG	AGCGTGGACG	ACCTGGCGCA	GCACAAAACCT	CGCTCTATCC	TGTCCAAGTA	180
TGACGAAAAA	CTTGAAGGGG	AGCGGCCACA	TTCCTTCCGC	TTGGAGCAGG	GGGGCACGGC	240
TGATGGCTG	CGGGAGCGGG	AGCTGGAGGA	GATCCGGGCC	AAGCTGCCGC	TGCAGGCTCA	300
GTCCCTGAGC	ACAGTGGGGC	CCCCGCTGGC	CTCCGAATAC	CTCACGCCCTG	AGGAGATGGT	360
GACCTTTAAA	AAGACCAAGC	GGAGGGTGAA	AAAAATCCGC	AAGAAGGAGA	AGGAGGTAGT	420
AGTGCAGGGCA	GATGACTTGC	TGCCCTCTCGG	GGACCCAGACT	CAGGATGGGG	ACTTTGGTTC	480
CAGACTGCCG	GGACGGGGTC	GGCCCGAGT	GTCCGAAGTG	GAGGAGGAGA	AGGAGCCTGT	540
GCCTCAGCCC	CTGCCGTCGG	ACGACACCCG	AGTGGAGAAC	ATGGACATCA	GCACACTCTC	600
GAG						603

(2) INFORMATION FOR SEQ ID NO:963:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 415 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:963:

GAATTCTGGCC	TTCATGGCCT	ACAAACAGCGT	TAGGTTTTTT	TTTTNGTNTG	TNNGTTNGTT	60
TNGTTTTTTT	CCAACCTCT	TTCCGGATGGA	CGGGGAAAGA	GAGAAAGAAA	AANCAGGGGA	120
AAATCNACAA	AATGTGCGAT	GCAAAAGAGTC	GATTTTCGCG	GGGTTTGTCA	ACTTCGCCAC	180
TGCCGCACGC	GAATCGACGT	CGTCACGTGA	CGGTCGCGCT	CCGCCCTTAT	TAACTCTCAG	240
CCCAGCGCGC	GTTTCCAGGA	CCTCAGACTT	TTTGCCGAGG	CGGCAGTCCC	TAGACGAAGC	300
GAAGGGAGGCC	GGCCCTGCCC	CGCCCACAAAG	AGCTGCCCG	CGCGGGTGT	ATAGCTCCAC	360
CCCATCTGCA	AAGGAAGGGG	GAGCGGAAAG	AGCGGGATCT	AGCGGGGAAC	TCGAG	415

(2) INFORMATION FOR SEQ ID NO:964:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 241 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:964:

GAATTCCGCC	TTCATGGCCT	AGCGGGCTT	CAGACAAGTG	AAAAGGTGA	GAGAGGAGAT	60
CAGGGCCAG	AGCCCCGTGG	AGGCTGAGTT	TCCATATGGG	CAACTGAGCA	CATCCTGCCA	120
CTCCCACCTC	GTGCCTCAGA	ATNGACACCA	GGCTACTCAT	CTGGAGGTGA	CCAAGCACCC	180
AACCAATCGG	GTCCCCTGGA	GGTCCTCAAA	TGCCTCCCCA	TACCTTGTTC	CAGACCTCGA	240
G						241

(2) INFORMATION FOR SEQ ID NO:965:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 485 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:965:

GAATTAATAG	CCTGCAGGTT	AATTACTCCC	TGAAGGGTAT	TGTGAAAAG	TATAACAAGA	60
TCAAGATCTC	TCCCCAAATG	CCAGTATGCA	AAGGACACTT	GGGGCAGCCT	CTCAACATTT	120
TCTGCCTGAC	TGATATGCAG	CTGATTGTG	GGATCTGTGC	TACTCGTGGG	GAGCACACCA	180
AAACATGCTT	CTGTTCTATT	GAAGATGCCT	ATGCTCAGGA	AAGGGATGCC	TTTGAGTCCC	240
TCTTCCAGAG	CTTGAGACC	TGGGCTCGGG	GAGATGCTCT	TTCTCGCTTG	GATACTTGG	300
AAACTAGTAA	GAGGAAATCC	CTACAGTTAC	TGACTAAAGA	TTCAGATAAA	GTGAAGGAAT	360
TTTTTGAGAA	GTTACAAACAC	ACACTGGATC	AAAAGAAGAA	TGAAATTCTG	TCTGACTTTG	420
AGACCATGAA	ACTTGTGTT	ATGCAAGCAT	ATGACCCAGA	GATCAACAAAA	CTCAACACGC	480
TCGAG						485

(2) INFORMATION FOR SEQ ID NO:966:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:966:

GAATTCCGCC	TTCATGGCCT	AACGGCTCCC	TCACTTGTGA	ATTAAGTCA	GACACTGCCG	60
TAAGGTTCTT	CTGGTTCCCTG	CTTTGTGGAG	AAAGCTTTCA	GCAGCAATAT	CTGGGATCAC	120
TGGTGTATTA	AATGTCAGGC	CTCGCATCAT	TATTCTGCC	TGAGCTGATG	GTAAACCGGG	180
CACCCAGCCT	TTTAGCTTTC	ATCCAGCACG	AGGGAACCTG	CCTTCAGATG	TGACACGTAC	240
AAGTCAAAAA	AGCTCAGAGT	CAGCTCCAAC	GTCTATTGGA	TCCCACCTCTA	TCGCCTTAA	300
AAAGGAAAAG	AAAATCGAAA	CGAACCTCGAG				330

(2) INFORMATION FOR SEQ ID NO:967:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:967:

GAATTCTGCC	TTCATGGCCT	AGGGTCGAG	ACTCAAATGC	CCACAGGGC	CAGGTTAGGT	60
TAGCGGCTGA	AGCAGTCTGG	GGAGAGGCAA	AAAGCAATGG	CAGGGAGGTG	GGACAGAGGA	120
ATGTGGCCCC	CAAACATATGG	GGGCAGCTGC	TACTCAGTGC	CAGCTGTTGG	TCGCCATGGG	180
GGGAAGCGGG	ACCAGAGCCG	CCGGGTCTTC	GGCTTTTCA	AGAGGACCCA	TAACTCCGA	240
TTGTTATTTG	AACTGTCTG	ACTTTGGTAA	GACTCTGTGA	CGGTGACAGT	GAAGGAGGCC	300
GAECTCATCGT	CAATTTCACA	CAAGTACTCG	CCGGAGTCCT	CGAG		344

(2) INFORMATION FOR SEQ ID NO:968:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 531 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ_ID NO:968:

GAATTCTGCC	TTCATGGCCT	AGGATGCAGC	CGAAAAGGAT	CGCAAGCTTC	AGGAGAAAGA	60
GAAGCAAATC	GAAGAGCTGA	AGAGGAAACT	GBAACAAAGAG	CAGAAGCTCG	TGGAAGTGCT	120
GAAAATGCAA	CTTGAGGTTG	AAAAACGAGG	GCAGCAGCAG	CGGCCCTTGG	AAGCCAGCC	180
CAGTGCCCA	GGTCATTCTG	TCAAGTCAGA	TCAGAAGCAC	GGCAGCCTTG	GCTCCTCCAT	240
CAAAGATGAG	GCCTCACTCC	CTGACTGCTC	CAGCTCCAGG	CAGCCCATCC	CAGTAGCCAG	300
CCACGCTGTA	GGCCAGCCCG	TCTCTACAGG	TGGCCAGACC	CTTGTGCCA	AAAAGGCTGT	360
AGTTATCAAG	CAAGAGGTCC	CTGTGGGCCA	GGCAGAGCAG	CAGAGTGTG	TCTCGCAGTT	420
TTATGTGAGT	TCCCAGGGAC	AGCCACGCC	TGCTGTTGTT	GCTCAGCCCC	AGGCTTTACT	480
GACCACGAG	ACTGCTCAGC	TGCTGCTCCC	AGTGTCCATC	CAGGGCTCGA	G	531

(2) INFORMATION FOR SEQ ID NO:969:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:969:

GTGCCTCGAG	AAACTGCCTA	TTCAGAAACA	CAGAACACC	GAGACCTAA	AATCCCTGA	60
GAAGGACGTT	CCCATGGTAG	AAAAGAAGAG	CAAGAAACCC	AAGAAGAAAG	AGAAAAAAACA	120
CAAAGAGAAA	GAGAGAGACA	AGGAGAAGAA	GAAGGAGAAAG	GAGAAGAAGG	CTGAGGACCT	180
GGACTTCTGG	CTGTCTACCA	CCCCACCGCC	TGCCCCGCC	CCCGCCCCCG	CCCCCGTTCC	240
ATCCACGGGG	GAGCTCAGTG	TGAACACTGT	CACTACCCCG	AAGGACGAGT	GTGAGGACGC	300
CAAGACGGAG	GCGCAGGGCG	AGGAGGACGA	TGCCGAGGGG	CAAGACCAGG	ACAAGAAATC	360
TCCCAAGCCT	AAAGAACAAAGA	AGCTCGAG				388

(2) INFORMATION FOR SEQ ID NO:970:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 365 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:970:

GAATTCCGCC	TTCATGGCCT	AGCTTACACT	GGGCCAAGTG	CTTGCCAAGG	ATTCTCATGT	60
GACATTTCTT	TCAGTCCCTGC	CGAGGACTTT	ATGAGGGAAAG	CACCCCTTTT	TACAGAGGGA	120
AGGGGGCCTA	TGGGGTCTAC	AGCACTGAGA	GCCTAGACTT	CAGTCTCGGT	CTCTCTGATT	180
CCAAAGCCTG	TGATTGTGAC	TTCCATACTC	TCCCTAAAGAC	ACATTCTAC	ATTCAACTGA	240
ATATTTATTG	AGCACCTACT	GTGTGCTAGG	GATAGAGCAG	AAATGAATC	AGGCAAAAAT	300
TATTTACATT	CCACTGGGGC	TGACAAACCC	AAACAAGGAA	GAGGTGTAGT	GCTTCGGGTC	360
TCGAG						365

(2) INFORMATION FOR SEQ ID NO:971:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:971:

GCAAAAGTAA	TATGATTTGT	TTAAAATACT	CAGTCAACAG	GTATTTCTG	AAAATATTT	60
CCATAGAAAG	TAGAATATGG	TTCTCCGAA	AAAAAACTGA	TCCATTTAC	CTTTTTCTT	120
CCCTTTGTT	TNNGGTATTT	TTTTTTCTTT	TTTCTTTNN	GCTTTTTCC	TTTAACCTTC	180
CAGCCAAGG	CTTCTATGAT	CTTGATGCTT	AAATGAAGC	TGCTTGGACA	AGTGCCCCACA	240
GCCAGTTGGT	TCCCTGTAAT	GTGGTGGGC	GTACCTTCCT	GCCAGACAGA	CTGATTGTT	300
ACCAACGATC	TTGTAAACCC	AAAGCTCTCG	AG			332

(2) INFORMATION FOR SEQ ID NO:972:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:972:

GCGCCCTCAC	CCCTCCAATC	CCCCCTCTGA	CCCCCTCTTC	CTCACATGGG	GTCGGGGGCC	60
TGGGAGTTCA	TTCTGGACCA	GCCCACCTAT	CTCCATTTC	TTTTATACAG	ACTTGAGAC	120
TTGCCATCATG	CACAGCACAC	AGCAGCACCC	TTCCCCCTGAG	GCCGGTGGGG	AGGGGACAAG	180
TGTCAGCAGG	ATTGGCGTGT	GGGAAAGCTC	TTGAGCTGGG	CACTGGCCCC	CCGGACGAGG	240
TGGCTGTGTG	TTCACACACA	CACACACCTC	GAG			273

(2) INFORMATION FOR SEQ ID NO:973:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:973:

GAATTCTGGCC TTCATGGCCT ACTCTGTCTC AAAAAAAAAT AGTAAGTTGT GTAAAGAAAA	60
ATATTAATTA TATAATATGG CAGTTCCTAT GAGAGTGTGG CAAAAATCAA GAGGGCTTGG	120
AAGTTTTTTC TTTGCTCTTG CAACTGGCTG GATGCAGTTG ATATATTTTT CAACCAGTAG	180
CTGGCACCCCC AACCTAATTT TTTCAGTTG TAACCTGGTG GCAGAAGGGG CAGGACTGAT	240
GGCTTGGCA AGACTGTTAT GCCAAGTTCT CGAG	274

(2) INFORMATION FOR SEQ ID NO:974:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 145 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:974:

GAATTCTGGCC TTCATGGCCT AGTGAGATAG TACCAAGATT AGAATATAAT TTTATCTTTC	60
TTTAGCAACA AGCCCTAACAA ATATCCAAAC TAAATAAAAT CATTACATGA ATTTACTTTT	120
TACAATCATT CTCTTAAGGC TCGAG	145

(2) INFORMATION FOR SEQ ID NO:975:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:975:

GAATTCTGGCC TTCATGGCCT AGGAAATAAC AGTTATTCA TCATAAAACA GTCCCTTCAA	60
ACACACAATT GTTCGCTGA AGAGTTGTCA TCAACAATCC AATGCTCACC TATTCAAGTTG	120
CTCTGTGGTC AGTGTGGCTG CATAGCAGTG GATTCCATGA AAGGAGTCAT TTTAGTGATG	180
AGCTGCCAGT CCATTCCCAG GCCAGGCTGT CGCTGGCCAT CCATTCAAGTC GATCATCTCG	240
AG	242

(2) INFORMATION FOR SEQ ID NO:976:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 116 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:976:

CATGTGCACA CTCGCACATG CACATATGGG CACGTGGGAA GACGGGAGAA GTACTGTCAA	60
AGTATAAGGA ACTGCAGAGG TTGGGATTTA CTGGAACCGA ACCGACCCACA CTCGAC	116

(2) INFORMATION FOR SEQ ID NO:977:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 461 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:977:

GAATTCCGCC	TTCATGGCCT	AGCATGGCAA	CAGATATGTG	GAGCATTGGA	GTGTTAACAT	60
ATGTCATGCT	TACAGGAATA	TCACCTTCT	TAGGCAATGA	AAACAAAGAA	ACATTCTTAA	120
ACATCTCACA	GATGAATTAA	AGTTATTCTG	AGGAAGAATT	TGATGTTTG	TCTGAGTCGG	180
CTGTTGATTT	CATCAGGACA	CTTTTAGTTA	AGAAACCTGA	AGATCGAGCC	ACTGCTGAAG	240
AATGTCTAAA	GCACCCCTGG	TGACACAGA	GCAGTATTCA	AGAGCCTTCT	TTCAGGATGG	300
AAAAGGCACT	AGAAGAAGCA	AATGCCCTCC	AGAAAGGTCA	TTCTGTGCCT	GAAATTAAATT	360
CGGATACCGA	CAAATCAGAA	ACCGACGAAT	CCATTGTAAC	CGAAGAGTTA	ATTGTAGTTA	420
CTTCATATAC	TCTAGGACAA	TGCAGACAGT	CAGAACTCGA	G		461

(2) INFORMATION FOR SEQ ID NO:978:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 108 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:978:

GAATTCCGCC	AAAGAGGCCT	AATGATGATG	AATAAGTTGG	TTCTAGCGCA	GTTTTTTTTT	60
TTTCTTGCT	ATAAACGATT	TAACCCCCCT	GTACACAACT	CACTCGAG		108

(2) INFORMATION FOR SEQ ID NO:979:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 505 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:979:

GATGGCGCTCG	GGCAGCGGGG	CAAAAAACTT	GGACTTTCGC	CGAAAGTGGG	ACAAAGATGA	60
ATATGAGAAA	CTCCCCGAGA	AGAGGCTCAC	CGAAGAGAGA	GAAAAGAAAG	ATGGAAAACC	120
AGTGCAGCCT	GTCAAGCGAG	AGCTTTACG	GCATAGGGAC	TACAAGGTGG	ACTTGGAAATC	180
CAAGCTTGGG	AAGACAAATTG	TCAATTACCA	GACAACCCCT	CAATCTGAGA	TGGGAGGATA	240
TTACTGCAAT	GTCTGTGACT	GTGTGGTGAA	GGACTCCATC	AACTTTCTGG	ATCACATTAA	300
TGGAAAGAAA	CATCAGAGAA	ACCTGGGCAT	GTCTATGCGT	GTGGAACGTT	CCACCTGGA	360
TCAGGTGAAG	AAACGTTTG	AGGTCAACAA	GAAGAAGATG	GAAGAGAAGC	AGAAGGATTA	420
TGATTTGAG	GAAAGGATGA	AGGAGCTAG	AGAAGAGGAG	GAAAAGGCCA	AAGCGTACAA	480
GAAAGAGAAA	CAGAAGGAGC	TCGAG				505

(2) INFORMATION FOR SEQ ID NO:980:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:980:

CGAGGGACAT GAGGCTGAGC TGGTTCCAGG TCCTGACAGT ACTGTCCATC TGCCTGAGCG	60
CCGTGGCCAC GGCCACGGGG GCGGAGGGCA AAAGGAAGCT GCAGATCGGG GTCAAGAAC	120
GGGTGGACCA CTGTCCCATC AAATCGCGCA AAGGGGATNT CCTGCACATG CACTACACGG	180
GGAAAGCTGGA AGATGGGACA GAGTTTGACA GCAGCCTGCC CCAGAACCGAG CCCTTGTCT	240
TCTCCCTTGG CACAGGCCAG GTCATCAAGG GCTGGGACCA GGGGCTGCTG GGGATGTGTG	300
AGGGGGACCT CGAG	314

(2) INFORMATION FOR SEQ ID NO:981:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:981:

GAATTCCGGGC TTCATGGGNT ACTCATTGCT ACATTGCTAG TTGACCCGCA GTTATATTT	60
CTTTTTTTCT TTTTAATAAA AGGCAAGAGA ACAATCCGT TTTTGCCCTT TCCTACCACA	120
TCTTTGACTT TTCTGATTCC TGCAAGTTA AGTTAAAAC ATCCTACCTT CAAGCTACAA	180
AATGCAGCAC ATCCCAGGAC ATCCCTCACC TGCTTTGCTT GTTTATTAGA CACAAGTGGC	240
TTTGTTCAGA AAGTTACTGG GAACCGCTAA GGATAGTCAA GGTGGAGAAC ACAGGGTGGG	300
GTCTCAGAGT CTGAGGCCTT GGTCAGGTT CCTGATAACA TTAAATATAG AAAATACACA	360
GCACAAGGCC AAACTCGAG	379

(2) INFORMATION FOR SEQ ID NO:982:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:982:

GAATTCCGGCC TTCATGGCCT AGAAGATGGT AAGGTCGAA TCTTCGGGT GATGGGAGTT	60
AAAGTGTGAAC AGGAACCTGGG ATTTAAGGGC CACACTTCAG GGGTATCCCA GGTCTGCTTT	120
CTCCCAGAAAT CCTATTGCT GCTTACTGGA GGGAAATGATG GGAAGATCAC GTTGTGGGAT	180
GCAAACAGTG AAGTTGAGAA AAAACAGAAAG AGTCCCACAA AACGTACCCA CAGGAAGAAA	240
CCTAAAAGAG GAACTTGCAC CAAGCAGGGT GGAAATACTA ACGCTTCAGT AACAGATGAG	300
GAAGAACATG GCAACATTT ACCAAAGCTA AATATTGAAC ATGGAGAAAA AGTGAACCTG	360
AG	362

(2) INFORMATION FOR SEQ ID NO:983:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 574 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:983:

GAATTCGGCC	TTCATGGCCT	AGGCCACTGA	TATTTTCTA	AGTTAGCAAG	GCTCACTTGC	60
TTGCTTCTT	GCCTCCCTTG	CCTCCATCCC	TCTCCCTTCC	TACCTTCTCT	ATTTACCTAT	120
TTCTCTCCCT	CCCTCTCTTC	TCCTCTCTTT	TTTTTCCCC	CGCATATGCA	GCTTTTTGAT	180
TGTACTTGAT	TTTATAGAGA	CTGCACAGTT	CCAGCAAGAT	TGGGAGTCAG	GCATGGAGCA	240
GGCATCTCAG	GCTACCAGAA	AGAATTGGTC	ACCTAGACTT	TCAGTCAGGC	ATCCTCGTTT	300
GCATTGTCCT	CTAACGCAAT	TAGTTGATAA	ATAGTTCCCC	CTTCATCCCT	TAAGTTTTGT	360
TTTGTGTTTT	GTGTTTAATA	TAGGTAAGTG	GGACTCTACC	AAAAATTITG	CATCATACTT	420
ATGGGTAATA	TCTTTTCAT	ATATTATTA	TCAAAGTATG	AAGTTGAGTA	TTTGCTTGT	480
ACCATTCAA	TTCTGCACTTA	TAGTAGTTCA	TTGTATAACT	GAAAGAAATG	ATTTCTTCAT	540
AAGTGACATT	AAATATGAAC	ATTCATCTCT	CGAG			574

(2) INFORMATION FOR SEQ ID NO:984:

- (i) SEQUENCE CHARACTERISTICS:

 - (A) LENGTH: 274 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:984:

GAATTCGGCC	TTCATGGCCT	ACGATTGAAT	TCTAGACCTG	CCCCCTCCCT	CCATGCCTCA	60
TCCCCCGCCC	CCTCCAGTCA	TGCCGCAGCA	GTGTTAATTAT	CAGTACCCCTC	CGGGCTATT	120
TCACCACAAAC	TTCCCACCTC	CCAGTTTTAA	TAGTTTCCAG	AACAACCCCA	GTTCTTCCCT	180
GCCAGTGCT	AATAACAGCA	GTAGTCCTCA	TTTCAGACAT	CTCCCTCCAT	ACCCACTCCC	240
AAAGGCTCCC	ACTGAGAGAA	ACTCCCCACT	CGAG			274

(2) INFORMATION FOR SEQ ID NO:985:

- (i) SEQUENCE CHARACTERISTICS:

 - (A) LENGTH: 366 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:985:

GAATTCGGCC	TTCATGGCCT	AGATAAGGAG	ACITTCAGAAG	AGAAGCCGCC	AGCTGAGGGA	60
AGTGAGGACC	CTAAGAAGCC	ACCCCGCCCT	CAGGAGGGAA	CAAGATCTAG	CCAGCGAGAT	120
CAGATACTCT	ATCTCTTTGG	GAGAACTGGC	CGAGAAAAAG	AGGAATGGTT	TAGGAGATT	180
ATTCTGGCAT	CTAACGCTAA	GTCGGAATTC	AAGAAGTCAT	CGGGTGTCTC	TGGAGGTTAA	240
CCAGGGCTTT	TGCCTGCACA	CAGCAGACAC	AACAGTCCGT	CCGGGCACCT	GACCCACAGC	300
CGCAGCAGCA	GCAAAGGCAG	TGTGGAGGAG	ATCATGTCAC	AGCCAAGCA	GAGGGAGCTA	360
CTCCGAG						366

(2) INFORMATION FOR SEQ ID NO:986:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 451 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:986:

GAATTCTGGCC	TTCATGGCCT	ACTCTCTTCC	AACCAAAAGT	CTTAATATGG	GAATATCCCT	60
CACCAACGATC	CTAATACTGT	CAGTAGCTGT	CTTGCTGTCC	ACAGCAGCCC	CTCCGAGCTG	120
CCGTGAGTGT	TATCAGTCTT	TGCACATACAG	AGGGGAGATG	CAACAATACT	TTACTTACCA	180
TACTCATATA	GAAAGATCCT	GTTATGGAAA	CTTAATCGAG	GAATGTGTG	AATCAGGAAA	240
GAGTTTATTAA	AAAGTAAAGA	ATCTAGGAGT	ATGTGGCACT	CGTAATGGGG	CTATTGCCC	300
CAGAGGGAAAG	CAGTGGCTTT	GCTTCACCAA	ATIGGACAA	TGGGGAGTAA	ACACTCAGGT	360
CTTGTGAGGAC	ATAAAGAGAG	AACAGATTAT	AGCCAAAGCC	AAAGCCTCAA	AACCAACAAAC	420
CCCCCTGAA	AATCGCCCGC	AGCATCTCGA	G			451

(2) INFORMATION FOR SEQ ID NO:987:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 334 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:987:

GAATTCTGGCC	TTCATGGCCT	AGAGAAACTG	AGCAAAATA	GCTGCCAAGA	GAAGAGGGAA	60
CGAGTGCTCG	GGCGGGTTG	GAGGCAGATA	ACGAGAAGGC	AAGAAAATTC	TTTGTCTTTG	120
GCTCCTGCTG	TCAGCTCAGA	GGGGTCATCT	TGAGATGAAA	AAGAAAAGTC	CCCAGCCTTG	180
GGGAAGGAAA	CGAGAGGGTG	CCCCACGCGAG	ATATGAAGCA	AAGCCATTGG	CAAGATATTG	240
TCTCTAACGGA	GAGCAGCGGT	CTTGCCAAAG	GCATCTTCTA	TTGTGTATTG	CCGTCTAAAC	300
CCCTACCCCTT	CCATGTAGAT	AGCCAGGACT	CGAG			334

(2) INFORMATION FOR SEQ ID NO:988:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 509 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:988:

GAATTCTGGCC	TTCATGGCCT	AAGAGAAACA	AAAATGATT	TGCTTCCAA	GCTTGGTTTG	60
TGGCGCTCC	CTCCACAGAGC	CCTCTCGTT	TCTTTTTTAA	ACTAATCAC	ATATTGTAAA	120
TTTCAGGGTT	TTTTTTTTG	TTTAAGCTGA	CTCTTGTCTC	TAATTTGGA	AAAAAAGAAA	180
TGTGAAGGGT	CAACTCCAAC	GTATGTGGTT	ATCTGTGAAA	GTTGCACAGC	GTGGCTTTTC	240
CTAAACTGGT	GTTTTTCCCC	CGCATTGGGT	GGATTTTTAT	TATTATCAA	AAACAAAATG	300
AAAAGCTTAT	TTACTTTTTT	TTTCCCTGAAA	TGCTGACAAT	ATGTGATATC	TTAATATCTG	360
TAATTCTTAG	TGAAACTTAT	GCTATAGTAT	AGGTGAAGCT	GTAGTGTAA	TATCAATAGA	420
TGTGAATTCA	AATGAGCAAT	CTAATAATT	TTTACTATTIC	AATTATGTTA	ATTTCTTCT	480
CTTTGTCTCC	CATTGTATCT	GCACACTGAG				509

(2) INFORMATION FOR SEQ ID NO:989:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 409 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:989:

GAATTCTGGCC	TTCATGGCCT	AGGCTTGTGG	GCAGGGCCCG	TGCAGGTCA	GGAGCCGGTA	60
GCATCTCAGA	CCTGGACAGA	CGAGGTTAGGC	TGGGAGCAGG	CCCGGTTGGG	GACCAGTGGC	120
CCCTGCACAG	GAGCCAGAGG	GCCTGGGAGG	CTGTCGTCC	AGAAAGCATG	CAAGACCCCG	180
TGCCACCCGG	GCACACAGGG	CTGTCGTGTC	TAGAAAGAGA	TCTCCTGGGG	TCACGGGAGG	240
GCAAAGCTGA	TTGATTTGG	CCGTGAAGTT	TGACCTTGTC	ATGGAAACCG	AGCTCCCAGG	300
GAGTGAGACA	AACTGCCCTCC	CCGTGTCAGT	GGCCATAAAA	CCTGACTTGG	TTTACAGCC	360
CCGAGAAATT	GCTCACTAAT	AGCCAGACAG	ATGCTCCCCC	TGCCTCGAG		409

(2) INFORMATION FOR SEQ ID NO:990:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 210 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:990:

GAATTCTGGCC	TCATGGCCTA	CCCAAATCTG	AAGTCTTTGG	ATATGTTACT	GCTGAAGTTT	60
CTATCACCTTC	TCACTCCTGG	TTCTTGTTT	CCCTGTATGC	TTTTTTTTT	TTCCATGAG	120
TTCACCTTTT	TAAATTATAG	TTCTTCAAGG	CCTAGGATGC	AGGTGTGTC	TTCCATAAAG	180
GGCTATTTTG	CCTCTGCCGA	GGTCTCGAG				210

(2) INFORMATION FOR SEQ ID NO:991:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 447 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:991:

GAATTCTGGCC	TTCATGGCCT	AGTAGATAGT	ACAAAATTCA	ACAGATATCA	AACTGTGTTA	60
AGTTTACCTT	TCCACCCACT	TTCTCATTTT	TGTCTCCCCC	AGTTCCCTTT	GCATTATTCC	120
ACGTATATTC	TGTGCATATA	TACATTCTATA	TACATTTATC	TGTATGTGTC	AGTTCTTTT	180
TACACAAATG	ATACATAAAC	ACTGTTCTGG	ACCTTCCAAC	TTAGAATTAC	TGCAAACAGT	240
GTCGTGATGA	ATTACCTAAT	TCTGTGTATG	TGTGTATATT	GGTAGAAAAA	ATTCCGGAA	300
GTAGAATTGC	TAGAACAAAG	ATTTTATGCAT	TTAAATATT	CCTTTATTAT	AAAACTAATG	360
AAAGTAAACA	TGTTGGCTAT	GACCACGTAT	GCTCTATGCT	CAGTTTTCT	AGAGTTGTGT	420
ATGCTTAATA	TAGGAGCCTG	CCTCGAG				447

(2) INFORMATION FOR SEQ ID NO:992:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 303 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:992:

GAATTCTGGCC	TTCATGGCCT	AGCCCATTGT	TGTTTATTTT	GAATTAATTT	CAAGCTTACA	60
GAAGAATTAT	AAGAATTATA	CAAAGAGCCC	TTGTATAGCC	TTCATCCAGA	TTCCCTCATTA	120
ATAGTTATCT	CCCCCACACA	CGTAATGCAC	AGACACTGCA	TGCATTTTCC	TTTTCTTTTT	180
TCTCTTCTTT	CTTTTCTTT	TTCTCTCTTT	CCCTTTCTCT	TCTCCCTCCC	CTCCCCCACCC	240
CTCCCCCTCCC	TTCCCTCTCC	TTCCCTCCCT	CCTACTTCAG	CCTCTAGAAAT	AACTAGACTC	300
GAG						303

(2) INFORMATION FOR SEQ ID NO:993:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 359 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:993:

GAATTCTGGCC	TTCATGGCCT	AGGATTTGGT	AGGGTAACCT	AAAAACTGAG	TTAAATGAGA	60
AAGGTAGAAA	AAATTCTGTAC	TTTTTCTCCT	CCCCACAAAA	AATAAAACA	GTAAAATCTT	120
TACCAACTGA	AAAAGCTGTT	GAAATTTCT	GTATGTTAAA	AAAATGAGCT	TTGCAGTAAC	180
TCTTAAAATC	ACCTAGCAAA	ATAGGAACTA	TAATGTGCAT	CTTCCCTTCA	CTAAAACATT	240
TATTGCATCT	CTTCTTGATG	CTGATGATTG	AGGACACACA	TTCTGCTTTC	CTGGGGCTTA	300
TGGTTTTATA	AAAAAACCAA	AGCAAAGTAG	AAAGTATACC	TCCTACCAAG	GGGCTCGAG	359

(2) INFORMATION FOR SEQ ID NO:994:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 406 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:994:

GAATTCTGGCC	TTCGGCCTTC	ATGGCCTAGA	GGAGGACCAA	GGCTTCAAAG	GCCCCCTGCC	60
GCGCGTCCTG	CAGGTTCCA	TTGTCGGTGT	TAATAGCCTC	AGATGGGCAT	CAGTTGCCCT	120
GATGGGCTTG	GGCTCCACGC	CCGGGCTTGC	ATGTTGGCA	AAATTACTCA	AGAGCATTTC	180
TTTTTTTTTT	CTTGAGACT	CCGTCTCAA	AAAAAAAAAA	AAAGAGATCC	TCAGCTGTTG	240
TTTCTTGAAT	CAGATATTG	GATCACTCTA	GCATCCAATC	ATGCAGCTCC	AAATATGCT	300
CCTAAATCAT	GCAGGTCCAA	TCAGGCACCT	GTGTTACGGT	TTATCAATT	GTGCTCATCC	360
TGAACATAAT	AAACAAATCC	ATGAGCCAAC	TGCAGCACCA	CTCGAG		406

(2) INFORMATION FOR SEQ ID NO:995:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 603 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:995:

GAATTCCGCC	TTCATGGCCT	ACCATCTTGG	AACCTCCTCC	CATGATTGCC	TTATTATTTT	60
AAATACATTA	ATGTAGATCA	ATGAAAGATA	AGAAAATAAG	CAATTTTATT	TTACCTTAAT	120
TTATTCTGTT	TCTGATGCTC	TTTGCTCTC	TATGTAGGTC	TGACTTTTG	ACCTACATTA	180
TTTTCTTCC	CTCCTAGGAA	TTTTAAAAG	CATTCTTGT	AAGGCAGGGC	TACTGAAAAC	240
AAATTTCCCT	AATATTGCT	TGCTCTACAA	AGTCTTTATT	TCTCCTTAC	CTTTAAGGG	300
AAATTTCACA	ACCTACAGAA	TTCTAGGTTG	GTTGGTTTTT	TCCCCCTCAA	TCCCTTAAGT	360
ATTTAATTC	TCTCTTCTG	CTTGCGATGT	TGTAAGGAA	GAGTCAGATG	TAATTTTAT	420
CTTGCTTCT	GTATGGTAG	GGTGTCTTTT	CTTCTAGATT	TTTTTTCAG	AGTTTTTTC	480
TTTATCTTG	ATTTCTGTA	CTTCAAATAT	ATTATGCCCA	GGTATAGATT	GTTTTTGTT	540
CTTGTGTTGT	TTTCATTG	CATTGTTCT	GCTTGGTGT	CTCTGAGCT	CCGGATCTC	600
GAG						603

(2) INFORMATION FOR SEQ ID NO:996:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 461 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:996:

GAATTCCGCC	TTCATGGCCT	ACAGAGAACATG	AAACATGGAG	CTCACATTCT	GATGGGGAG	60
AAATAAAAT	CATATCAGAT	CGTGATGAGC	TTTCGGTTT	TCTATTTCTA	TTTATGAAGA	120
ATAAAAATAAG	GTAAATAGAGA	TAATGTGATG	AAAATCTAA	CATTCTCTAC	CTTTCTGAA	180
TTCTTAATCT	ATACCTTCTG	TTCTTACATT	TTCTACTTAA	TTTTATTAA	TACAACCTGT	240
AGCTAAACTT	TTATTTTCT	TTCACTCCTG	ATTCTTAACC	CCTATCCATG	CTAATTTTG	300
CCTTCACTAT	TCCACAAAAC	TTACCCACTG	TGTTATTATT	ATCTTCTATT	AAAAGCCAGT	360
ATTCTCTTTT	CAGTTTTAT	CCTTCTTGT	CTACACTGAA	CATGATTGCC	TTTCTCTCTC	420
TTATATCACT	TGCTGCTATC	TGCAAGTCCAA	CTAGCCTCGA	G		461

(2) INFORMATION FOR SEQ ID NO:997:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 470 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:997:

GAATTCCGCC	TTCATGGCCT	AGTGATTGG	GTACAGACAC	AGCCAAACCA	TATCATTACA	60
GATATAAATC	TCTGAGTAA	TCCGGTGT	GATTCTTCT	AGCTTTTTAG	CTTATGAGTA	120
GAGGTCTTTC	TCCTCTACTC	CAAGAATT	CATAGACACA	CCACTTAGTA	CTTACGTTA	180
CCACCATGTT	TATTATTTT	AAGAATGTAC	TACTTTATAT	TTTAAACAT	GAAGGACTAG	240
CTCAAAATTT	TGTAGCTTCC	CCCCCGCCC	CAATCTTTT	TTTTTTTGT	ACTCCTTGT	300

GATGGGTAGT GGTTTAAAGA CAGCAAAACA TGACCTAAC CAGAACACTA ACTAGCTTA	360
TACATAATTC AGCCTATGAA CATGTATCTG GCAAGAGAAA TTCCCTGATCT GTGGTTCGGC	420
AGATCCATGA GAGCTGCTTC TCCGGATTTT CTTTGCTGGC CCCTCTCGAG	470

(2) INFORMATION FOR SEQ ID NO:998:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:998:

TTTAAAGAGA GTTGCCTTAT TTTCTCCAAA AGCATTCTGT CACTTCGTCA TTTTGACAGT	60
TAACTGTCGG TTTTACCTG CATTCTAGG TGCTAAAAT TACAAGTGT A TCTCTTGAAC	120
ACAGGCATTG ATCCTCTACC AATGAATAAT TGAGAGAGGT AGGAATGACT GATTTTTCTA	180
GTTGTAGTTT GAAAGATTAA TTGATGAAAT TGAAAGATAT GGAAACTATT CTGTTACTAT	240
TGCAAAGAAA GATTTATTTT TTAAAAAAAT TTATTTTAT TTATTTTATT TTATTTTTT	300
GGCAGGTCT GGCTCTGTCA CCCAGGCTGG AGTGCAGTGG CAGACTCGAG	350

(2) INFORMATION FOR SEQ ID NO:999:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:999:

GGAGTATTGT TACAATCACA TTTGAAGTAC CAGGAATGC AAAGGAAGAA CATCTTAATA	60
TGTTTATTCA GAATCTCTG TGGAAAAGA ATGTGAGAAA CAAGGACAAT CACTGCATGG	120
AGGTCTAAAG GCTGAAGGGA TTGGTGTCAA TCAAAGACAA ATCACAAACAA GTGATTGTCC	180
AGGGTGTCCA TGAGCTCTAT GATCTGGAGG AGACTCCAGT GAGCTGGAAG GATGACACTG	240
AGAGAACAAA TCCATTGGTC CTCGAG	266

(2) INFORMATION FOR SEQ ID NO:1000:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1000:

GTAATGGGAG ATGGACATCC ACTGTTTCAT AAGAAGAAGG GGAACAGAAA GAAGCTAGTA	60
GAGCTGGAGG TGGAGTGCAT GGAAGAGCCT AACACCTTG ATGTGGACCT GGAGACCCGG	120
ATCCCTGTCA TCAATAAGGT GGATGGTACT TTGCTGGTGG GTGAGGATGC CCCTGCCGG	180
GCTGAAGTGG AGATGTGGTT ACAGGGTCAT CCAGAGTTTG CTGTTGATCC CCGATTCTA	240
GCGTATATGG AGGATCGCAG AAAACAGAAG TGGCAAAGAT GTAAAAAAAAA TAATAAGGCA	300
GGACTCGAG	309

(2) INFORMATION FOR SEQ ID NO:1001:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 306 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1001:

CACGTCAGGA	GAATAGAATG	GAAAATTTT	ATTTCAACAG	AAAGAAGTTA	ATTTAGAAAA	60
TTAGTTAAA	ATACATTG	AAACTTAAAG	AGCAAAAGC	ATTTGTAAC	AAACAAAAAA	120
TAAACCAAA	AAACCTGT	GAGGTTACTA	CTAATAGTAA	CTGTTAGGAGG	CATCTACCTC	180
CCTAGATTGG	GGAAAGAAGT	AGTGGTGAA	TTATCAGAAC	CTAGAACGAC	AGAACAGGGG	240
CCCCTCAGAA	TGTGTTCTCA	GACTCTGAG	GGAAGGATGC	TACCCAGCTA	CAGCTGGTTC	300
CTCGAG						306

(2) INFORMATION FOR SEQ ID NO:1002:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 541 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1002:

GAATTCCGCC	TTCATGGCCT	ACACCCCTGCT	AATTTTTGTA	TTTTTTTTTG	TAAAGGCTGG	60
GTCTCACTAT	GTTGCCAGG	CAGGGCTCG	CTATGTTGCC	CAAGTGGTC	TGAACTCCT	120
GGGTTCAAGC	AATCCTGCCT	CGGCCCTCCA	AAGGGCTGGG	ATTACATGCA	TGAGCCATCA	180
CATCTGGCCC	CCACCCATCT	AAAAAGTCAG	AAATAAAAGC	CAGAGCCCC	CCTTGACCTC	240
CTGGCCCCCT	CCGTTTATC	ACCCCACCTC	TCTGCCTGTC	TTTATTGCAA	AACCCCCAGA	300
AGGTTATCAG	GTCATGGTC	TTCCCTCCCTG	TCCACACTGC	CCCAACTACA	CAATGAGATG	360
CCCCCATTC	AACTCCCCAG	CCTCCCTCTGC	TGGCGTCTCC	TCCTTCCTAA	TCTCTGAACA	420
TTGTCCCATC	CAAGGGCTCA	GTCCCGAGTC	CGTTCACCCC	TTGTCCACAC	TCACCCCTGAG	480
AGCTTCCAGT	CTGTGGCCTC	CATGCCCTGG	AATGAGCCCC	TGTAAGATCC	ACAATCTCGA	540
G						541

(2) INFORMATION FOR SEQ ID NO:1003:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 602 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1003:

GAAACGCCTC	CTGATTTGT	CTTACAATGG	AACTAAAAAA	GTCGCCTGAC	GGTGGATGGG	60
GCTGGGTGAT	TGTGTTGTC	TCCTTCCTTA	CTCAGTTTT	GTGTTACGGA	TCCCCACTAG	120
CTGTTGGAGT	CCTGTACATA	GAATGGCTGG	ATGCCTTTGG	TGAAGGAAAA	GGAAAAAACAG	180
CCTGGGGTTGG	ATCCCTGGCA	AGTGGAGTTG	GCTTGCTTGC	AAGTCCTGTC	TGCAGTCTCT	240
GTGTCTCATC	TTTTGGAGCA	AGACCTGTCA	CAATCTTCAG	TGGCTTCATG	GTGGCTGGAG	300

GCCTGATGTT GAGCAGTTT GCTCCCAATA TCTACTTTCT GTTTTTTCC TATGGCATIG	360
TTGTAGGTCT TGGATGTGGT TTATTATACA CTGCAACAGT GACCATTACG TGCCAGTATT	420
TTGACGATCG CCGAGGCCA GCGCTTGGCC TGATTTCAAC AGGTTCAAGC GTTGGCCTTT	480
TCATATATGC TGCTCTGCAG AGGATGCTGG TTGAGTTCTA TGGACTGGAT GGATGCTTGC	540
TGATTGTTGG TGCTTAGCT TAAATATAT TAGCCTGTGG CAGTCTGATG CGACCCCTCG	600
AG	602

(2) INFORMATION FOR SEQ ID NO:1004:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 378 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1004:

GCGGCAATGA TACCCACTGC CAACCAACAA AAATTGGCTG CAACCATCCC CTACCAGGAC	60
CGAGCCCCTA CAGGTGAGCG GCTCTGCCAG GCCCTGGCTC CTGCCCCCAT GCACCCAAGC	120
CGGAGCCTGG GGCAGCTCT ACAGGGCTCA CCAGGGCCCC AGCAGGATGC CTGGGTCCCC	180
TGCTCCCTGCT TGGCAAAGG GAAGAGGAAG CAGCAGGCAAG GGGCTGGGA GGCCTTCATG	240
AATTACATGA ATTATCCTTC TTTTTTTTTT TTTCCTCTTT TTTTTTTTTT TTTTTTTTTT	300
TTTTTTTTTT TTGAGANNCCA NTTNAAAAAA AAAAGGGGGG GGTGTCAGGG	360
TTTCATTCAAG AGCTCGAG	378

(2) INFORMATION FOR SEQ ID NO:1005:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 208 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1005:

GAATTCCGCC TTCATGGCCT ACTGTTTAT TTCCCGCTTT TATTTGCTT TTGAAATCTT	60
TTTCTTGTT GGATTTGTAC GTGTCTTCAC TAGATGCCTC AAATTAAGTC TGACCACAAT	120
CCTACTCTAC TTTCTACAGT GGAGAGACCA TCCTCCCTGC CCCAGGGCTG TCTCCACCCA	180
CCCCCCCTTC CCCACCCGCA CCCTCGAG	208

(2) INFORMATION FOR SEQ ID NO:1006:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 396 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1006:

CTGATCTGTG AACCTTACAC GAGCAAGGAA TTATTCCGGG TTTTGGATAC ACCCTACTTA	60
CTAAATGAAG ACTGGATAA CTATCTCT GGGAACTAT TTAATAAATC AAAATGAAG	120
CTCACTTTG AACAAAGTTA CAGTGACTGC AAAAAAATA GAGGCACCTTA CGGCACCTTT	180

CACCTGCAGA ACAGCTTCAA TATCAGTGAA CATCTCAACA TTAATGAGCA TACTGGAAGC	240
ATAAGCAGTG AATTGGAAAG TCTGAAGGTA AATCTTAATA TCTTTCTGTT GGGTGCAGCA	300
GGAAGAAAAA ACCTTCAGGA TTTTGTGCT TGTGGAATAG ACAGAATGAA TTATGACAGC	360
TACTTGGCTC AGACTGGTAA ATCCCCGCT CTCGAG	396

(2) INFORMATION FOR SEQ ID NO:1007:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 290 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1007:

GAATTCCGCC TTCATGGCCT AGATGGGGGC TAGTTTTGT CATGTGAGAA GAAGCAGGCC	60
GGATGTCAGA GGGGTGCCTT GGGTAACCTC TGGGACTCAG AAGTGAAGG GGGCTATTCC	120
TAGTTTTATT=GCTATAGCCA=TTATGATTAT=TAATGATGAG TATTGATTGG TAGTATTGGT	180
TATGGTCAT TGTCCCGAGA GTATATTGTT GAAGAGGATA GCTATTAGAA GGATTATGGA	240
TGCGGTTGCT TGCGTGAGGA AATACTTGAT GGCACTTCT GTAGCTCGAG	290

(2) INFORMATION FOR SEQ ID NO:1008:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 311 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1008:

GTGGTTCTGA AATCACCCCTT CCTTTTCACT CCTCTGCCCT GACTTCCTCT CTCACCAGTC	60
TCTCCTGCTC TCCACCTCA CCCTCTTCAG TGGGATTCT GCATTTCAAGC CAGAGGGACC	120
TGTCTGCAGC TACCAAGATGC TCCCCACCCCT GGGAGAGCTC AGCGGCATGT CTGCACATGG	180
GCCTTTTCAG CCTTCTTCAT CCCGCAATTG GAACTGACTT TCCCCACTCCC ATCTCACACT	240
TGAGAACCTC TGTITCTTGT TTCTTGTGTT TTATTTATT TTTATTTTTT CTCCCCCTG	300
GCGGACTCGA G	311

(2) INFORMATION FOR SEQ ID NO:1009:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 391 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1009:

GGANCAGAGT CCAANAGATN AATTATATTC AGAAAACCTCT GTTCAAGATA GGGTATGATT	60
ACAAATTGGA ACAGATCAA AAGGGATATG ATGCACCTCT TTGCAATCTG TTACTGTTTA	120
AAAAGCTCAA GGCCCTGCTG GGAGGGAAATG TCCGCATGAT GCTGTCGGAA GGGGCCCGC	180
TATCTCCTCA GACACACCGA TTCAATGAATG TCTGCCTCTG CTGCCCAATT GGCCAGGGTT	240
ATGGACTGAC AGAATCATGT GGTGCTGGGA CAGTTACTGA AGTAACTGAC TATACTACTG	300

GCAGAGTTGG AGCACCTCTT ATTGCTGTG AAATTAAGCT AAAAGACTGG CAAGAAGGCG	360
GTNTACAAT TAATGACAAG CCAAACTCGA G	391

(2) INFORMATION FOR SEQ ID NO:1010:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 415 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1010:

GGGGAAGAAA GCGTAAAGGA TGGTGAAGCT GAACAGTAAC CCCAGCGAGA AGGGAACCAA	60
GCGCCTTCA GTTGAGGATG GCTTCCAGAC C3TCCCTCTC ATCACTCCCT TGGAGGTTAA	120
TCACTTACAG CTGCCTGCTC CAGAAAAGGT GATTGTGAAG ACAAGAACCG AATATCAGCC	180
GGAACAGAAG AACAAAGGGA AGTTCGGGT GCCGAAAATC GCTGAATTAA CGGTCAACCAT	240
CCTTGTCAAGC CTGGCCCTAG CTTTCCCTTGC CTGCATCGTG TTCCCTGGTG - TTTACAAAGC	300
CTTCACCTAT GATCACAGCT GCCCAGAGGG ATTCTGTCTAT AAGCACAAC GCTGTATCCC	360
AGCCTCCCTG GATGCTTACT ACTCCTCCCA GGACCCAAT CCCAGAACCC TCGAG	415

(2) INFORMATION FOR SEQ ID NO:1011:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 407 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1011:

GCCAGACTAC CACAAGCCCC ACCCACACTA TGCCAAGGCC TACCCATACC ACAGCAAGCC	60
CCACTCATAC TTCCACAAGC CCCACCCATA CCCCCACAAG TCCCACCCAC AAAACCAGTA	120
TGTCACCTCC CACCACTACA AGTCTTACCC CCAGTGGTAT GGGCCTAGTC CAGACTGCCA	180
CAAGTCCAC CCATCTTACCA ACAAGCCCCA CCCATCCAC CACAAGCCCC ATCCTTATAAA	240
ATGTAAGGCC TTCCACTTCT CTAGAACTTG CTACCCCTCTC CAGCCCCCTCC AAACACTCAG	300
ACCCCACCCCT CCCAGGCACT GACTCCCTTC CCTGTAGTCC CCCAGTCTCC AATTCTACA	360
CTCAGGCAGA CCCTATGGCC CCCAGAACCTC CCCACCCAAG TCTCGAG	407

(2) INFORMATION FOR SEQ ID NO:1012:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1012:

GAATTCGGCC TTCATGGCCT ACCGGCGCCGC CACAATGGGC CGCGGAGTTT GGGAACTCTGA	60
CCGGGATGCC GCATCTGATC ACCTACAGCT TGTCAACCGTT CGAGCAGGCC CCCTATCCGC	120
ACGTCTTCAC TAAAGGAATC CCCAATGTTC TGCGCCGCAT TCGGGAGTCT TTCTTTCGCG	180
TGGTGCCGCA GTTTGTAGTG TTTTATCTTA TCTACACATG GGGGACTGAA GAGTCGAGA	240

GATCCAAGAG GAAGAATCCC GCTGACCATT GAATTCTAGA CCTGCCTCGA G

291

(2) INFORMATION FOR SEQ ID NO:1013:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 351 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1013:

GAATTCGGCT TCATGCCCTA TGGATTACCT GAGGAAGAAG AGATCAAGGA	AAAAAAACCC	60
ACCACTCAAG GAAAGTCAG TAGCAAGAAG GAAATGTCTA AAAGAGATGG	CAAGGAGAAA	120
AAAGACAGAG GAGTGACAGAG GTTTCAAGGAA AATGCCAGTG AAGGGAAAGGC	CCCTGCAGAA	180
GACCTCTTAA AGAACCCCCCT GCCTCTACT GTGAAGAAGG AAGAGAGTCC	CCCTCCACCT	240
AAAGTGGTAA ACCCACTGAT CGGCCTCTTG GGTGAATATG GAGGAGACAG	TGACTATGAG	300
GAGGAAGAAG AGGAGGAACA GACCCCTCCC CCACAGCCCC GGCAGCTCGA-G		351

(2) INFORMATION FOR SEQ ID NO:1014:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 596 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1014:

GCTCGAGTCG GATCCTCCCT GAATGTGGAG CGATGGGGGG TTGACACAG GCGCTCTGC	60
CCCAGCAGCT AACAGAAAG ACCCTTGAT TCCTCCCTGC ATCTCTCCCT TTTGGGTCTC	120
ACTAATGTCT GTTGAATTTTC TCTTTTTCC AAAGCAAAT CTTCTCTGC ATTTGTCTG	180
CTTGCTGTT TCCCAGAGCC GCAGGACTCT CTCCCTGTCT GGAGTTCCAG AGAGCCCCA	240
CTTTCTCTTT CTAAGCTGTG TTGCTGTCTT CCTGTCACAT TCTAGGTTCC CCAAAGATAA	300
ACATGACTAA GGATTGGAAA GGAGGAAAGG CCCGCGAGAT TGTTAATCTG AAAGTCATC	360
CCCGGATTAA GCTCTAAAAA ATGCTTTATT TTTGGAGAAA AGCAATAGAG TAAGACAGAA	420
GGACTTAACG CTTGCAGGGA AGTGGCTTTC TGCCATGTAG AGCCAGGCTG GCAACCTGCC	480
CTCTGCCATC AGGGAGTGAG CATGAACCTG GAAACCTCTA GGACGCAAGA GCGAGGCTGG	540
CTGTCCCCCTC GTGTGAGTG CTTAGACCTT CTTGCCACAC ATCCCATCCC CTCGAG	596

(2) INFORMATION FOR SEQ ID NO:1015:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 353 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1015:

GAATTCGGCC TTCATGGCCT ACTTGGTTTT GCTGACCAAC AAATATGCAT AGTGTCTATT	60
CACAGTTATA CAGTAATAGG TTAGAACAGA ATAATATGCC AGCTCTTAT GATGCCCTTG	120
CCAACAATCA GGCCATGTGT TTCAAGGACCC TTCCCTCCTC TGACTTGTGT AGCATTACAC	180

CTCAGCACAC GACTTCTTGA AAGAGTGAAC CTCCAGGGCT TGCTCTCTCA GATGCACCTG	240
GGCAGCAGCA GGAACGTGCT GACAGTCTCT CCTGTCTCCA TAAAGTAGCG GGCTGGCTCT	300
TTGCTGGGAG TGATGGGAGC CACAGATAACG TGCAATGGAAG TTACTGCCTC GAG	353

(2) INFORMATION FOR SEQ ID NO:1016:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1016:

GAATTCCGCC TTCATGGCCT AATTATTAAG TAAAATAAGG GTTCCTTGAA TATAGGCCT	60
GCAAATACCA TGACAGTGT CTGATCACTG AGCTAACTAC TGAGTGACTC AGAGGCAGGT	120
GATGTACT GTGTTGGAGTG GAATGGTGGAG AGATTTCATC ACACTACTCA GAATTGCATG	180
AAACTTAAAG CTTATAAATT GTTTAATTCT GGAATTITTC ACTTAATATT TTCTGACTGA	240
GATTGCCAC GGGTAACTGA AACTGTGGAA AGCGAAACTG CAGATAATGG CGGACTCGAG	300

(2) INFORMATION FOR SEQ ID NO:1017:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 491 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1017:

GCGATTGAAT TCTAGACCTG CTCGATCTCA TGGGGCAGAT GAAATTCTCT TCCTTAGAGG	60
AAAGGGAAAG GTGAGGCCCC AGAGGACTTA TCTCAGCTGT ACATGCTCTG CCTGTGGAGA	120
CATGGCTTTT CTTTGTGCTG TGGCAGACTG GGGCTTGGG AGTGGTGTAT GTTTAACCTA	180
CCTGAGAGTG AGAGATGTGT AGGAAGAATA GCTGGAAGAA AGTGAAGAT GAGTGCCAGT	240
ACTTTTGCCC TGTTATCCAG TAGAGAGAAA GTGACAGTGA AAGTAACCTG AGAGAGAAAG	300
AGTGTGTGTG TATATGTGAG AGAGAGAAAG AAAGAGAAAG GAATGCTTGA TTGCTTGTG	360
TTCACTGGGC CAGCTCTGAA ATCCAAAATC ATGCCCTGAT AACATTACAA AACCGTGATC	420
CTGGGTTGAA GTGAATCCTA GAGACATTGT TCTTATGGCC GCCTGGTTTC CGCAGCATGA	480
TCACCCCTCGA G	491

(2) INFORMATION FOR SEQ ID NO:1018:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 323 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1018:

GCTTTTCCAT GAAAGGTGGA TCGAGATCTA CTGCCAGTGG GTCAACAGGT TCTAAATTGA	60
AATCAGATGA GTTACAGACC ATCAAGAAAG AATTAACCCA GATCAAAACT AAAATTGACT	120
CCTTGCTAGG GCGCCTGGAG AAGATTGAGA AACAGCAGAA GGCGGAGGCA GAAGCTCAGA	180

AGAAGCAATT GGAAGAGAGT CTAGTGCTGA TCCAAGAGGA ATGTGTGTCAGAGATTGCAG	240
ATCACTCTAC AGAGGAGCCT GCTGAAGGAG GCCAGATGC CGATGGAGAA GAGATGACAG	300
ATGGGATAGA CGTTGGACTC GAG	323

(2) INFORMATION FOR SEQ ID NO:1019:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1019:

GGTCACAATC TCCTTGCGAGT CCAGGGACTGG GCATACTCAT ATGCCCTTCTG TGGTTGGCGT	60
CCTTGTATTT ACCCAGTTTT GGTTCTGGTT TCCTCTTTCA CACTTCCTGT CATTGGCTTA	120
TACCCCTACC TGTGTCATTG GCCTTAACAA GGACTTAAAG ATGCCGAAAG TTCAGTATAA	180
ATCGAAGTGT AAACCATCCA CATTGCTATA TCCTGCCCT CTGGAAGTAC CAAAAGAAAA	240
AGAAAAGGAA AAGGTTCTA CTGCTGTATT ATCTATAACT GCCAAGGCTA AAAAGAAGGA	300
AAAAGAAAAAG GAACTCGAG	319

(2) INFORMATION FOR SEQ ID NO:1020:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1020:

GCGGGCATGG TGTGTAGCCT ATGGGTGCTG CTCCCTGGTGT CTTCAGTTCT GGCTCTGGAA	60
GAGGTATTGC TGGACACCAAC CGGAGAGACA TCTGAGATTG GCTGGCTCAC CTACCCACCA	120
GGGGGGTGGG ACGAGGTGAG TGTTCTGGAC GACCAGCGAC GCCTGACTCC GACCTTGAG	180
GCATGTCACTG TGGCAGGGGC CCCTCCAGGC ACCGGGCAGG ACAATTGGTT GCAGACACAC	240
TTTGTGGAGC GGCGGGGGC CCAGAGGGCG CACATTGAC TCCACTTCTC TGTGGGGCA	300
TGCTCCAGCC TGGGTGTGAG CGGCGGCACC TGCCGGGAGA CCTTCACCC TTACTACCGT	360
CAGGCTGAGG AGCCCGACAG CCCTGACAGC GTTTCCTCCT GGCACCTCAA ACGCTGGACC	420
AAGGTGGACA CAATTGCGACG AAGACTCGAG	450

(2) INFORMATION FOR SEQ ID NO:1021:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1021:

GAATTCGGCC TTCATGGCCT ACTAGACCTG CTTTTGGAA GAGAATGCTT TTACCTGTT	60
CTTTTTTAA TCCACCTGGC ACTTTCTCA GGACCCAAAC TTGTTCACTC TGCTGCTTCT	120
TGATGTATCA ATTTGGGAC ATCACCTGTT GTCTCCTTGC TGTGAATGAT GAGGATTGG	180

CCCATATTAC CCCCGTTCT TCCCCGGTCA TTCTCTCGGT TGCCCTTGTC ACTTTAAATC 240
 ATTTACATAA ACCACAACCTT CTCGAG 266

(2) INFORMATION FOR SEQ ID NO:1022:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 352 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1022:

GAATTCCGGCC TTCATGGCTA AGAAACTTAT TCCGTCTTCAG CATGAGAATA AGATGTTAAA 60
 GCTTAACCAA GAAGGTTCCG ACAATGAAAA AATAGCCTTA TTGCAGAGCC TTCTAGATGA 120
 TGCAAATCTA CGCAAGAATG AACTGGAGAC AGAGAATAGG CTGGTGAATC AAAGACTTCT 180
 GGAAGTACAG TCACAAGTTG AAGAATTACA AAAATCTTA CAGGATCAAG GCTCAAAGC 240
 AGAAGATGCT ATTTGAGTGG TTCTAAAAAA GAAGCTTGAA GAACATCTAG AGAACGTCGA 300
 TGAGGCCAAT AATGAACTAC AGAAGAAGAG AGCCATTATT GAAGATCTCG AG 352

(2) INFORMATION FOR SEQ ID NO:1023:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 249 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1023:

GAATTCCGGCC TTCATGGCCT ACAAAAGCCA CCAGGTGAAT AAATGCCATT TTCTTTTGCA 60
 CTAGACATG TTCAATTACT GAAAATGAAC AAGGTAATGC TCAGCATAACA AAAAAAAATT 120
 AAAGTTCTCA AGATCCCCATG CTTCTGGAT TCCTCTGTAT TTATCACTCA AGTCATCCCC 180
 CTTTTGTAA TCTCGCTTT TGCCCTCGCT TTATTTAAAT CCTTTATATC ACTACCCCCA 240
 TCTCTCGAG 249

(2) INFORMATION FOR SEQ ID NO:1024:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 267 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1024:

GAATTCCGGCC TTCATGGCCT ACAGGAAATA GGCAAAATA CCCAGGAAAA GGAAACAGTT 60
 TTATGCATTA GTGCTGTACC TTCTTCATAT TGTCAAAAT AAAAGATAGT AGAGATTTAT 120
 TGAAAACATT TTAAATAAG AAGTTGTGTT CATAATATAA AGCTGCCTTA AACTATATAT 180
 GAAAAAAACT GTAAATCAT A GAAAATAACT TTATCAAAGA TGTTAAATAA TACATTTAC 240
 AGAATAATTT CCCATGGCT TCTCGAG 267

(2) INFORMATION FOR SEQ ID NO:1025:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 232 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1025:

GAATTGGCC TTCATGGCCT AGCCATCTTA TTGAACTAT ATTTTCCTT CAAAGAACCA	60
ATAGGTCTCA ACATAGTGTA GGTAGCATCA GGTGACAGAA AGCCAATTTC ATTTCAAAT	120
TTAAGTTAAT TATCTCGTG ATCCTATTAA TCCACAATTTC CTTTCAGAAA AGACTGAAAA	180
AAACACATTAT ATTCAAGGAGA TATAATGAAA TTATTGGAAG GCATCACTCG AG	232

(2) INFORMATION FOR SEQ ID NO:1026:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 153 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1026:

GAATTGGCC TTCATGGCCT AGATTGAATT AGACCTGCCT CGAGCCCCTA AAAATATCCT	60
AAATGCATTT CCTCCTCTGC ATTCTAACTA CTGCTGCCCT TGTTCTAGGA CTCCACTCTC	120
CCACATCAAC CAACTTTCT CCTTGGCCCC CTC	153

(2) INFORMATION FOR SEQ ID NO:1027:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 294 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1027:

GCGAGGGCCA GGGAGGGAGG AAGCAATAAA TAGGGGAGA AAATGGCAAT AAGACGTTAT	60
ATAGCCCTTC TAACAAAAT ACCAGAAGGG AGGGGTGAGG GACAAGGCTG TCTGAGGGAG	120
GGCAGGAGGT GAGGCCATGG CTGGTCTCT TTGCGCTTG GATGGCCGTC AGCTCAGCAT	180
GAGGCATCTG AAAGAACTAC CCAGATTGCA GAAGAGAGAG GTCCCAGCCT CCTTGGAAAGG	240
ACATGATGGG GGAGGAGTGG AGACAAACAGC TGAGTGTAC CTGTAAAAGT CGAG	294

(2) INFORMATION FOR SEQ ID NO:1028:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 285 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1028:

GAATTCCGCC	TTCATGGCCT	ACACACATA	CCAACACACA	CACAGACACA	CACATACACA	60
GAATCAACAC	TCAACACGCA	AACACCCAAC	ACACACATGC	ACACACACTT	TCTGAAGATG	120
AGTTTTCTCA	TTTATGAAAT	GAGCTCATCT	GGACTTGCCA	TGAGGGTCCA	ACAGGTGCCA	180
TGCAATCAGG	TGTGCACTCA	GTATGGGCTG	GGTGGAGATG	GCCATCTCCT	TTCCCGTCCA	240
GGCCTGGTTC	CTGTGTGCTG	GGCCTCTGCT	CTTCCCCCCC	TCGAG		285

(2) INFORMATION FOR SEQ ID NO:1029:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1029:

GACAAGCTGA	GAAAATGAAA	GGAAAAACTAG	AAGAATTGTC	TAATCAGTTA	CATCCAGTC	60
AAGAGGAGGA	AGGAACACAA	AGAAAAGGCT	TGGAAGCCA	AAATGAAATA	CATACCAAAG	120
AGAAGGAGAA	GCTGATTGAT	AAGATTCAAG	AAATGCAGGA	GGCCACTGAC	CACTTGAAGA	180
AACAAATTGA	AACTGAAAGT	GAAGTCAAGT	GTAACCTCCG	GCAGGAAGCA	TCCCCGCTCA	240
CTTTGGAAAA	CAGGAAACTC	GAG				263

(2) INFORMATION FOR SEQ ID NO:1030:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1030:

GAATTCCGCC	TTCATGGCCT	ACCTCCTACA	AATTTAATT	TTTTATGAAA	TTTTTAGGTG	60
ACTTGTAAAT	TCTTCATGTA	TGAGGAGTTG	TGTTTATTAA	TGCTACTTT	TAAATTTCC	120
TGTGCCCCGT	GGCAGATGTT	TATTCTCTTA	ATGCACCTCA	GGTTTGCTAT	CTGTAAAGCC	180
TTTGACCCAG	GCCTACTGAG	TCAAATCTAC	ATTCAGTGT	ACATTAAGG	CAGAAA	240
GAG						243

(2) INFORMATION FOR SEQ ID NO:1031:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1031:

AATTCCGCC	TCAATGGCTA	ATTTGAAATTCT	AGACCTGCC	CGAGATTACA	GCCAGAGTCT	60
CCTAACTGCT	CTCCCATCTAT	TCTCTAAATCC	CAATAGCTAC	TCTCCATGCA	GCTGTAGAG	120

TGGGCCTTAT AAAACATTGG TCAGGTCATG CCAGGCCTCC GATGGCTCCC ATCACACTCA GGGTAAGAGC CGAAGCCCCA TGTGGGTGTC TAAGGCCCCG TGTGATCCTT ACCCACTTCT CTCGAG	180 240 246
--	-------------------

(2) INFORMATION FOR SEQ ID NO:1032:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 114 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1032:

GAATTTACAC CTGCCTCGAG TACTCCCAG CCACTTCAG CACAAATATC ACTTATTATG TGCTGTTGA ATATTATTTT CTTTATTCT AAGTTGGTC CATTAGTCT CGAG	60 114
--	-----------

(2) INFORMATION FOR SEQ_ID_NO:1033:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1033:

GAATTGTTGT TCCTTTCTTT TCCATGATAT CATTATATGG ACAGTTAGG GTGGTCTCAT GGATTATAAC CATTGGATA TTGGTTCAC TAACAATTTT CTTACTGCC AGACTTCTTG GTGGAGAAGT TGCATATGGC CAAGTCCTTG GAGTTATAGG ATATTCATTA CTTCCCTCTCA TTGTAATAGC CCCTGTACTT TTGGTGGTTG CATCATTGAG AGTGGTGTCT ACACTTATAA AACTGTTGG TGTGTTTGG GCTGCCTACA GTGCTGCTTC ATTGTTAGTG GGAGATCTCG AG	60 120 180 240 300 302
--	---------------------------------------

(2) INFORMATION FOR SEQ ID NO:1034:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1034:

GAATTCGGTC TTCATGGCCT ACCTGAGCAC TCTGCATTTT AATTCTGTGT TCTTCCCTT TATCTATGTG TTGTCTCTGA GGAAATGTCC TTAAATGTCT TCCTCAGGCT TGATACCTAA TTTGAGATGG TTCAAACAAAT TTTTCCCTTT TCCCTTCACT GGAAGCTTTG TTACTCATTC TGGTTGCTTT CATACTTCA AATGCTGTCT TTTTATTTTTT GGTGGTATTG TTTTCTCTT TCTCAGGTGT AACATACCTC GG	60 120 180 240 262
---	--------------------------------

(2) INFORMATION FOR SEQ ID NO:1035:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1035:

GAATTCGGCC TTCATGGCCT ACCTACTAGG CATGTTTAT GACACAGATG ATGCGAGTTT	60
CAAGTGGTTT GATAATTCAA ATATGACATT TGATAAGTGG ACAGACCAAG ATGATGATGA	120
GGATTTAGTT GACACCTCTG CTTTCTGCA CATCAAGACA GGTGAATGGA AAAAAGGAAA	180
TTGTGAAGTT TCTTCTGTGG AAGGAACACT ATGCAAACAA GCTATCCCAT ACAAAAGGAA	240
ATATTTATCA GATAACCACA TTTAATATC AGCATTGGTG ATTGCTAGCA CGGTAATTTT	300
GACAGTTTG GGAGCAATCA TTTGGTTCT GTACAAAAAA CATTCTGATT CTCGTTTCAC	360
CACAGTTTT TCAACCGCAA CCCTCGAG	388

(2) INFORMATION FOR SEQ ID NO:1036:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 258 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1036:

GAATTCGGCC TTCATGGCCT ACTTTTAGT AAAGAGCAA CTCATAAATT TTGGCATCAG	60
AGTTTGAGCT TTATTTTCT TAAATGAGTT TGAAATCAAT TTAATATTTTC TCTCCAATT	120
CCTAATGTCT CAGAAGTGAA TTTACAGTAT ACCTTTGTTT TTTCGTATTC TTAAGTAGTA	180
TTTGGATTTC ATTTAGTAGT TGCAGTACTA AATAAGGAGT GGGGAGTTAA TTACAAAACG	240
AATCAGGTGA CTCTCGAG	258

(2) INFORMATION FOR SEQ ID NO:1037:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1037:

GCGATTGAAT TCTAGACCTG CCTCGAGTGA TTTGGCCTGC ATGGTTTCC TCCTACCCCT	60
TTTTCTTTCG CTGGGTCAAGC TCGAG	85

(2) INFORMATION FOR SEQ ID NO:1038:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1038:

GCGATTGAAT TCTAGACCTG CCTCGAGGGG TTTGGAGCTC TGTTGGGTGG TGACCTCAGT	60
CCTGTTTACC CCTGCAGAAG AAGGACCCAG CCCAGTTCCCT GCAGGTACAT GGCCGAGCTT	120
GCAAGGTGCA CCTGGATTCT GCAGTCGCC CGCCGCTGA GACCCCTGTT AATATGATGC	180
CCTGGCAGGG GGACACCAAC AACATGATTG ACCGATTGCA TGTCGGTGT TAGGCCATGA	240
AGGTGAG	248

(2) INFORMATION FOR SEQ ID NO:1039:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1039:

GAATTCCGGCC TTCATGGCCT AGTCACTTAA ATAGATTGG TGTGAAATTG TATGATAAAA	60
GGTGACTTTT GTTCTAGTAA GTATTCTCAA AGAAAAGAGA GTGAGTAGCT ATTTTGGGAT	120
GAAGATAGTT ATAACGTAGA TAGCGGTTTT TGTTTTGTTT TTTTGTGTTT GGCCCAGGCG	180
GAGTGCTGTG GTGCCGTAT GGCTCACTGT AACCTCAGCC TGGGGTCAG GTCTGCCAT	240
CTCAACCCTC GAG	253

(2) INFORMATION FOR SEQ ID NO:1040:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1040:

GAATTCCGGCC TTCATGGCCT AGTCACAAAAA TAAAGCAAAAT ATTTATTTG GTATTGTTT	60
GAGCACAGCT GATTTTTAAC ATTTCTTTC ATAACACTCA GAAATCATTA ACAATTGTTT	120
GCTCATTGG TATGGGTTTT TTGTTCTCTT TTTTTTTTIG GGTCTTTTA GGTGCTTTCT	180
TTTAACATTG GTCATGTTTC ACCCTTTTT TTTTCATCCC CCCAGTCTCG AG	232

(2) INFORMATION FOR SEQ ID NO:1041:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1041:

GAATTCCGGCC TTCATGGCCT ACAAGGCAGT TAAAGGCATT TTATTCCAGC GTCTCTAGA	60
GAGCTTAGTG TATACAGATG AGGGTGTCCG CTGCTGCTTT CCTTCGGAAT CCAGTGCTTC	120
CACAGAGATT AGCCTGTAGC TTATATTGTA CATTCTTCAC TGTCTCTTGT TTACCTACCG	180

TAGCTTTTA CCGTCACTT CCCCTCCAA CTATGCCAG ATGCCAGGC TCCTCCTCTC 240
 TGGACTTCT CCAAAGGCAC TGGACCCTCG AG 272

(2) INFORMATION FOR SEQ ID NO:1042:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 286 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1042:

GAATTCCGGCC TTCAGGGCCT AGATTAATC TCAAGGTGGA CTAGGAGAGA ACAAGCAGAC 60
 TTCTATAGAA CAGTGTCTTC CTTTGGTGT GTTAACGATC AAGAAAAGAA AACCTTGAC 120
 TGGACACAGT TCCGCATCAT TTCCCGTTTG GACAAGAAGT CGGATGAGAG CCTGGAACAG 180
 TATTTTATAA GTTTGTGGC CATGTGCCGG AATGTCGTGTC GTCTACCCAC ATGGAAAGAT 240
 GGCGGTCCCC CAGATACCAAC CATCTACGTT GAACCCATTA CTCGAG 286

(2) INFORMATION FOR SEQ ID NO:1043:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 230 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1043:

GAATTCCGGCC TTCATGGCCT AGTGTAAATCT TATTGGGAAC CTAAAATGTC TCTTAAAGTC 60
 TTTTTGAAAAA CTCAGACATA TTTTTGGCAT TACCTTTTT TTATTGGAAA GGAAAAATGA 120
 AAACCTTCA TTTTATTAAT AATTCTATAT TCCACTCTG TATTTCTTC TCTTGGATGA 180
 TGATGGTGTAT ATTATTTCTC ACTTTCAAA ATAATACCT GGGACTCGAG 230

(2) INFORMATION FOR SEQ ID NO:1044:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 238 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1044:

GATTCCGGCCT TCATGGCCTA GGGAAAATAA AAATGTATTG AGTAGCACGT GGGTTATGGT 60
 TTCTCATAGA CCAGGGGATA AGATTAAGAAG TCACTGAAGA GTGGGAAAAT GCATGTTGAG 120
 AAGATGAGAA TGGCCTGTAT TTTCTCCAGG GGAATCTGTG TAATGTGCCT TTTCCCTCTC 180
 CAAATGCCTA GAACCATGGC ACTGTGTCTT ATTATTTAA CCGTTGGGCC GTCTCGAG 238

(2) INFORMATION FOR SEQ ID NO:1045:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 333 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1045:

TAATTCATCT AAGTTGTTGA ATTAGCATAA AGTTTTAAT AAAATTTAT GTAATTCC	60
TTTAGAGAAC TAACTTTGA AATTGCTGAT TTTCTGTTT CCGTTTCAAC ATTTACACA	120
CTGGTAGTTA ATAGTTTTT CTCTCCAGCT TACTTCGTGT TTGATTACT TTTCTTTTC	180
TGTCTTCTG AGGTGGAAGC TTAGAGGATT AATGATTCCA TTTCTTCTA ACGAATCAC	240
TTAAAACAT AAATTTCACT CCAACTACTT CTTTAGCTAA ATTCCATAAA TTTTACTATG	300
TTGTGTTTCC CTTTTCACT CGCTCTCCTC GAG	333

(2) INFORMATION FOR SEQ ID NO:1046:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 429 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1046:

GAATTCTAGA CCTGCCATTG TGGGGAGTGG AAGTGGCATG ACCTCAGGAG CCAGTTCTGA	60
GTCCAGGTGA ACCAAAGCTC AGTTCTTC ATCTTTGAAC CTGAACCTCT TACCTCCAAG	120
AAAAAGGGCC CAGGAATTG GGCCCTCTG TTTATTGTC CTTCTGCCCT TCTCCCTATC	180
TAACCCCTGG GTAAGGGTGA GCTTGAAGGT GATGGTGACA GTGGCTTCTG TGTGTGTCAG	240
TCCACCCCTCC AAGCAATGCT TAGAAACCAAG TCCATAACCC AATTAACACA TCATTTTAG	300
GGCAGATTG CAAGTCTCA GTTGTGTTACA TGTTTCTTA AGTACTAACCC TCCAAATTAA	360
TAAAGCATGA CACATGACAT CACACATTTC ACAATTGTA CCCAAGCAAA GTTCATGGAG	420
GTACTCGAG	429

(2) INFORMATION FOR SEQ ID NO:1047:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 65 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1047:

GCTTGGTAGA CCACATCCAA GGGACGATGA GGTTTCCCAG AGGAGGAGTG GTCACCAG	60
TCGAG	65

(2) INFORMATION FOR SEQ ID NO:1048:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 498 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1048:

GAATTCCGCC	AAAGAGGCCT	AAATTTGGTT	TAATGTGTCA	TCAAACTTG	TATTCAGCTA	60
TCTAGAGCCA	TTTTCTGGAT	TCATGCAATA	CATTTTCCCC	AAACCCTTT	TATTTTGAAA	120
AAGCTCAAC	ACAGAAAAGT	TGAAAGAATA	GCGTAAAGAA	CATCTGGATG	TGGTGCAGGG	180
TCTCATGTTC	ATAATCCCAG	CACTTCGGAA	GGATTATTC	AGACCAACCT	GGGCAACATA	240
GTAAGACCCA	ATGTCTACAA	AAATGTTTAC	GGATAAACCA	GGCGTGGTGG	TGAGGTAGTC	300
CCAGCTACTC	AGGAGGCTGA	GGTGGGAGGA	TTGCTTGAGC	CCAGGAGTTC	AAGGCTGTAG	360
TGAGCAATAA	TCACATCACT	GCATTCCAGC	CTTGAGTAAC	AGTGAGACCT	GTCTCAAAAA	420
AAAAAAAAAA	AACACCAAAA	ACAACCAACT	GTGTATATCT	TGCACTGATA	ATCCCCGAA	480
TTCTAGACCT	GCCTCGAG					498

(2) INFORMATION FOR SEQ ID NO:1049:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 443 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1049:

GAATTCCGCC	AAAGAGGCCT	AAAGCTGAGAT	GGGTGTTAAA	AGTTAACACA	CAGCTTAAGA	60
CAGAACGATT	GTAAAACAGG	AACAAATACT	GGCTTAAACC	TGATGTCTCT	AACTATATT	120
CTCTATTTA	AGAATTTTT	AGTATCTGAT	AGTTTCATCA	GCCTTCCAT	TTTCCAATAT	180
GTGACCTTA	TTCCCACCAT	GTCCCAAATA	AACGAGTCCT	AGGATTCT	AGAAGGTGGA	240
CCTCAATTAT	TGTGTCCTT	TTATATATAA	GGCAAACATT	GCTTTAAGT	TCTGTTGAA	300
CATGGGAAC	TTCACTAGAA	TGCTTAGAAT	GTTAGAAAAA	AATGTCCTAA	AGCTCTTTC	360
TGGTCCATAC	AAGAACATCA	GAATGTAACA	CAGTAGCAGA	GGGTGTGAA	CATAACACTAG	420
TCATATTG	TTCTCTCTGT	CAG				443

(2) INFORMATION FOR SEQ ID NO:1050:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 68 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1050:

GAATTCCGCT	AAAGAGGCCT	ACTTCTGGCT	ATTTTCAAAT	ATATAATATG	TTATTGTTAA	60
CTATACTC						68

(2) INFORMATION FOR SEQ ID NO:1051:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1051:

GAATTCGGCC	AAAGAGGCCG	GAATTTGGCC	CTCGAAGCCA	AGAATTGGC	ACGAGGGCAA	60
GAECTCTGTCT	CCAAAAAAA	AAAATTTAA	AAAAAAAAA	ATTTTTTAA	AAATTTANT	120
TAANGTAAT	TTAAAAATGT	TCAGTGAAAT	GCTAAAAAA	AAAAAAAGAC	GCACAAAATA	180
CCTTCATGTT	TCTCATCTCT	TTTCCCTTC	AGATTCTGCC	TTCTTCCAA	TTCAGCTCTT	240
CTTTCCAGT	CTTCAACCA	ACCACCAACGA	CTCTCGAG			278

(2) INFORMATION FOR SEQ ID NO:1052:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1052:

CTCGAGGACC	AAGGATGAAG	AGCATAAGAA	GATGAAGATT	GTAAACTTGT	ATAAAATTAT	60
CTTGGTGAGA	AGACAAATTG	AAAAGTAGAT	ATTTGTAATC	TTTTTACCACT	TTGGGGTTGC	120
TTTTTCCCG	GAATTCTATCA	GAACTTGAA	TTTTTTTTT	AAATGGGCTG	TTTTTAATGC	180
AGGGGCTTT	CTTCCCTAGA	AACCCAATTG	TAAGCAGAAA	AAGNAAAAAN	ACACCAAAAA	240
TAAAAAACCC	CCCTCGTGC	GAATTNTNGG	CTTCGGGGGC	CAAATTCCGG	CCTCTTGGC	300
CGAATTC						307

(2) INFORMATION FOR SEQ ID NO:1053:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1053:

GAATTCGGCC	AAAGAGGCCG	GAATTTGGCC	CTCGAAGCCA	AGAATTGGC	ACGAGGGCAG	60
TTAAGATCTG	GGTGATTCTT	TAGGGAAACG	GCTGGTTGAG	AGGCTTGAT	GGAATCCCAT	120
TCTCTGCTGT	GGCCAGAAGG	TGGTGTAGA	GGCCAGTCCC	ACTTGGATGT	GACCTGGCC	180
TCTGCCAGGA	TTCAAACAC	AAAGAACATT	TGGAACCTGGG	ATGTTTGCTT	TGAAGCAGCC	240
TGAAAACAG	TGAAAAGGAA	ACCAAGATAA	CTCTCTCTCC	CTCCCTGGC	AAGGATCAAA	300
AATACTTGT	GCAGGGAAAGC	CCGAGCCTCG	AG			332

(2) INFORMATION FOR SEQ ID NO:1054:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 389 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1054:

GAATTCGGCC	AAAGAGGCCG	GAATTGGCC	TGAAAGCCAA	GAATTGGCA	CGAGGCCTCG	60
TGCCGCGCCG	TTTTTTTTT	TTTTTTTCAC	AGGGGGGCAG	TCGGGATTAT	AATACACTGT	120
AGCAGTTGGC	TGGGAAAAG	TCTATCAAAT	TCCATGACCA	ATTGGACTT	TCTCCCACCT	180
GTAATATAAA	TAAAATATGT	ACTGTTCAT	ACTGAATT	TTCAATGCAT	TGGGGTTCAA	240
CATAAAAGGC	ACAAAATAAT	AAAATAATCA	TTAAATAAAC	GGAAATTACA	ATTCAGTT	300
TCATGTGGAG	TTGTATCTCA	CTGTTGGTT	ACTTTTCCA	ATTTAATTG	ACAGACTTAG	360
TAATAGCACA	CAACTGTCCT	ACCCTCGAG				389

(2) INFORMATION FOR SEQ ID NO:1055:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 213 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1055:

GAATTGGCT	AAAGGGTCTA	CGAGGTCAGC	AAGGACGCC	AAGGAGACTC	ACTCATGAAA	60
GGTGAACTGC	TCCTGTTTC	CAGTGTGATT	GTCCTGCTCC	AGGTGGTATG	CAGCTGCCG	120
GACAAGTGT	ACTGTCAAGTC	ATCTACAAAT	TTTGTAGACT	GCAGCCAGCA	GGGTCTGGCC	180
GAAATCCCTT	CCCATTCCCC	TCCGTCGCTC	GAG			213

(2) INFORMATION FOR SEQ ID NO:1056:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 173 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1056:

GAATTGGCC	TTCATGGCCT	ACCGATTCCA	GGTTTAAAT	AGTTTGAA	TTTCAGTTT	60
CTACACACTT	TATCATCCAC	TCGTGATT	TAAATTAAAG	CGTTTAAATT	CCTTCCTCTG	120
TTCAGCTGTT	GATGCTGAGA	TCCATATTAA	GTTTATAAG	CTTCCCCCTC	GAG	173

(2) INFORMATION FOR SEQ ID NO:1057:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 555 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1057:

GGTCATACTC	TCTCATCCAG	ACTGGAGTGC	ATGGAGTCA	GTGGCACCAT	CTCGGCTCAC	60
TGCAACCCCT	GCCTCCAGG	TTAACGCAAT	TCCCCTGCCT	CAGCCTCCCG	AGTAGCTGAG	120
ATTACAGGCA	CATGCCACCA	TGCCCTGGCTA	ATTTTGAT	TTTTAGTACA	GACGGGGTTT	180
CACCATGTTG	GCCAGGCTGG	TCTCGAACTC	CTGACCTAA	GTGATCTGCT	CACCTCAGCC	240
TCCCAAAGTG	CTGGGATCAC	AGGTGTGAGC	CACTGCACCC	GGCCTAGTTT	CCATTCTCT	300
GTTGATATT	ACTTCTATTTC	ACTCATTAAG	ACTATATT	TTTCTTTAA	TATATTTC	360

CTTAGTTCTT TGAACATATT TATAAGAGCT ATTTTTAAGT ATTTGTCAGT TGAATCTAAC	420
ATCTTTGGG GCCATTTCT ATTGACTGCT TTTTTCTTGA TGATGAGTCG CATTTCCTT	480
TTGCCTATC TAGTAATTAA TAAATTATAT ACTGTACCTT GTGGATGTAT GGTAGAGACT	540
CTGGGGCTC TCGAG	555

(2) INFORMATION FOR SEQ ID NO:1058:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 324 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1058:

GAATTCGGCC TTCATGGCCT AGAATGTTAG AAGGTGCCTG CCGAGGCCGG ACAGAGTGTT	60
CGCTCGCCCT GGAGAAAGCT CTGCTCAGCC CTGAGAGTC CTTCTGCC CACCGATACT	120
GGCACTTAA CAAGGAAGCT GACCGCACAG TGTCCAGACG AATTGGCCCC CAGAAGATGG	180
GGAGTTCTGT CCTGCCCTTC TGTGTCTGC TGACCTCACC CAGCCTAGGA GGGAGGTGCA	240
TTCAGGGTAG ATTTGCCTCT CATTCAAAGT TCTGGGGCTT TGGGTGGAAA ACAGCCAGCT	300
TTGGCGCTGC TGGGGAGACT CGAG	324

(2) INFORMATION FOR SEQ ID NO:1059:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 219 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1059:

GAATTCGGCC TTCATGGCCT ACTTGATGCT GCAAAGAACAGATGCGAGT GAAGATCAGC	60
TATCTAATGA TTGCCCTGAC GGTGGTAGGA TGCATCTTCA TGGTTATTGA GGGCAAGAACAG	120
GCTGCCAAAA GACACGAGAC TTAAACAAGC TTGAACCTTAG AAAAGAAAGC TCGTCTGAAA	180
GAGGAAGCAG CTATGAAGGC CAAACAGAG CAGCTCGAG	219

(2) INFORMATION FOR SEQ ID NO:1060:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 292 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1060:

GAATTCGGCC CTTCATGGCCT TAGTATTTAT AGCCAAGGAA ACAGGGCTAT GAGTTTGTAC	60
TGTAGGCAGC AGTAGGGAGG GGGAAATTGGA AGCAGGGGGG AGGGCTCTGC AGTAGTTTCAG	120
TTGATGCATA CATAAGGCCT GAATTAGGGA ATTAGGAGAG TGATCATAGG TGTGGAAAGG	180
AGGGGAGGGC TTCCAGGCAC ATTTGGTGTA AAATGGATAC AACTGGTAA CCTGTACATT	240
GCTACCTTTCG CACATTGGT TTCCCCTGTC TCAAAGGCTC CCTCTCTCG AG	292

(2) INFORMATION FOR SEQ ID NO:1061:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 386 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1061:

GAATTCCGGCC	TTCATGGCCT	AAACAAAACA	AACAAACAAA	GAGAAAACCC	ATGAGCATTT	60
TAATTCTGAC	TTTTTACTT	TTCTCCCTAC	ATTTAGAATA	CTGTGGCACT	TTCTGTTATC	120
CAAATGTGTC	TCAGTCTCCA	TATTTAAGGA	CTGTGGGTGA	AAAGCTTCTA	CCTGGAATTG	180
AAGTGCTTTG	GACAGGTCCC	AAAGTTGTTT	CTAAAGAAAT	TCCAGTAGAG	TCCATCGAAG	240
AGTTTTCTAA	GATTATTAAG	AGACCTCCAG	TAATCTGGGA	TAACATTCAT	<u>GCTAATGATT</u>	300
ATGATCAGAA	GAGACTGTTT	CTGGCCCGT	ACAAAGGAAG	ATCCACAGAA	CTCATCCAC	360
GGTTAAAAGG	AGTCCTCACT	CTCGAG				386

(2) INFORMATION FOR SEQ ID NO:1062:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 316 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1062:

GAATTCCGGCC	TTCATGGCCT	ACATGAAGCT	GAATTACTCT	CATCTTATAT	CTCTCTGCAG	60
TGGCATATCC	TGATGGTGAT	TTCCCTTTT	TGTGCCAG	TTTCACCCCC	TATGGAATGG	120
GGATAAACAC	TTGCCGCTGG	GCATGGTGC	ATGTGCCGTG	AGTCCCAGCA	CTTTGGGAGG	180
CTGAAGTGGG	AAGATTGCTT	GAGGCCAGGA	ATTTGAGACC	AGCCTGGCA	ACATAGTGAG	240
ACACTCTCTC	TACAAAAAAA	AAAAAGAAAA	AAAAAATCAG	ATGTGGTGG	TGCATGCTAC	300
TGAGGCAGAA	CTCGAG					316

(2) INFORMATION FOR SEQ ID NO:1063:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 289 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1063:

GAATTCCGGCC	TTCATGGCCT	ACTAGACCTG	CCAAGTTTC	TTCCCTTCATA	CTACATATTT	60
CACAAAATT	GCTCGTCAGG	TCTGAAAAAA	TACCCCTCCGG	CTGCGGCAGG	CAGCAAGACG	120
GCCGTTTGT	GCTATTAAATT	ATGCTGCCAT	TAGGGCAGAA	TGTAAGATGC	TTTTAAATTC	180
TTAACCTTAT	ATGTTGTGCT	TCTGACCATT	TTCTCTTTTC	CTCTCTTCC	TTTTTTTTT	240
GTTCGTTTGT	TTGCAATAAA	CATAAGTTCT	TGTGTACAGC	CCACTCGAG		289

(2) INFORMATION FOR SEQ ID NO:1064:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1064:

GAATTCCGCC TTCATGGCCT ACAGAGCTGA GAAATAATTG CTTGTGTGT TTATAAGTAA	60
GAGTTAACATC CCTCCCATTG TAATGTAGCA CCAGATCGAA GTAAACAGAC TATGATTTC	120
GTGCTAGACA CAGCCTTAAG GCAGAAGAAA TTACACTGTC ATGCAAAGGA TATGTAGCTG	180
CTGCTATTTT GGTGCTTGA TTCTTCGTTG TCACATAGTT GAAGGCAATC CAGATGAGGA	240
AGAGTGTAA CCAACAAAAA GAGAAAATTG CCTGCACATG GTCTCGAG	288

(2) INFORMATION FOR SEQ ID NO:1065:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 495 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1065:

GAATTCCGCT TTCATGGCCT ACTGGGAGCT ATCTTGTCTA CTTGAGGTT CCTGAACAAT	60
GAATCCCCAT TAATGAGCAG TCTTCAGTAT TAAAACCACT CTCTTGTAC CTCATTTGC	120
ATTACTGTCT TCCGTTGGATG TTTCAGTTAC AACTGTAATG TTATTTATAG AACAAACATTA	180
ATCCATTAAGA GCTAACCTAT TTTCAATAT TTATGATAAT CTATGTACAT ATATTGTCTG	240
TCCATATGTA TTGTAATAA GGTGTTATAT ATATGTCAGGT TTGGGTCTTG GGTTCAAGTG	300
TATATATTC TGAAAGTTTC TTAACTGCAT TTTGATGAAAT TCACATTATG TAACTATAAG	360
AATTGTCCA AAAGTACCTG TACAGAAAAT TGAATATTGA AAAATTGACA AATTGTGTAC	420
AAACACTAAA AAAAACTTGT TTAAATTGTA TTTGCAATAA ACAACATCAA ATTTTTCAT	480
GAAATCTGCC TCGAG	495

(2) INFORMATION FOR SEQ ID NO:1066:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 507 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1066:

GAATTCCGCC TTCATGGCCT AAAGATTATA AAGGAAAGGG GGGTAGTTAA GATTAGAAT	60
TCAAGTTAAA TTTCAGAAAT TGGGGCAGTC AGGCATTGT ATCTTTAGG GCAACAAGTA	120
AAACATGTAG AGTGTGCT ATCCCACTTC ATAAAGCTTT TACCCAAATCT TATTCTAAA	180
CCTCTCTGCA TTCTTACTGT CTCTCATTC TGAACAGAA AATAAGGAAA AACATTAAAC	240
TTAGTTTCTT AAAATCAGAT AATCCCTAAC AAAAATGTTA GTCAGGGTCA CTAAAAGTA	300
TTGCACATT ATATAAATAC AGTCCCTTTA AAATTTGACT TTTAAAAAC AAAAGACTTT	360
GTACGATATT GTGTTTTAT TGGCTTGCA ATATTTTAT AGTAGCCTTT ATGAACTCAG	420
TATAAGTGCA AGTTGTTGA AAAGGTGTT TTATTAGTGC ACAATAGAAAT TGTGAGGTTT	480
TCAATAGATG TCATGAGATT CCTCGAG	507

(2) INFORMATION FOR SEQ ID NO:1067:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 393 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1067:

GAATTGGGCC	TTCATGGCCT	ACTTATTTTT	TTCTTTAAA	CAAATAAGCA	CACATTCTTT	60
TTAAATAAG	TTTCTCTTC	CCAAACCTAAA	AGTAGTAATG	CTAGAATTG	AGCATAGCAG	120
AAAAATATT	AGGAAAATT	AATCCAAAC	AAGAGAGACC	ATCTTGGACT	GTGCTCACTC	180
GGGTGGAAAG	TCGACCCAGG	TGCCGTGTG	CTTGACAGAG	GCGTGGCTGC	ATCCGCTAG	240
CTGACCTCA	GATGGACTGG	AGTTAGCACA	TTTGTAGTC	TTTTCCAAC	CATTCTTCG	300
TATCTGAGGT	ACGTTTTGA	CCTGTTTAG	TAATGTCAC	GCGATCTGA	AGCACACTCT	360
TTCATTTACT	AAATATTTC	CTGAGCACTC	GAG			393

(2) INFORMATION FOR SEQ ID NO:1068:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1068:

GAATTGGGCC	TTCATGGCCT	AAGGTAATGT	GTCAGTGGAT	GGAAAAGTTT	AGAAAAGATC	60
TGTGTAGGTT	CTGGGCAAC	GTTCCTCCAG	TATTCCTTC	GTTCCTGAAC	ATCATGGTGG	120
TTGGAATTAC	AGGAGCAGCT	GTGGTAATAA	CCATCTTAA	GGTGTGTTTC	CCAGTTCTG	180
AATACAAAGG	AATTCTTCAG	TTGGATAAAG	TGGACGTCA	ACCTGTGACA	GCTATCAACT	240
TATATCCAGA	TGGTCAGAG	AAAAGAGCTG	AAAACCTTGA	TACACTCGAG		290

(2) INFORMATION FOR SEQ ID NO:1069:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1069:

GAATTGGGCC	TTCATGGCCT	ACTCGACTCA	TATTTTATC	ATACATTCA	AAGTCAGTTG	60
CTGATGTTAA	TCCCATTCA	ATGTGGGCA	GACTCTCGGG	GTAATTCAA	AAAGATGTCT	120
CAAACATGTT	TGTGTGTGTG	TGTGTGTG	TGTGTGTG	TGTGTGTG	TGTGTGTG	180
TGTGGAGACA	GGGTCTCACT	CTATTGCCA	GGCTGGAGTG	CAGTGGTGC	ATCATGGCTC	240
ACTGCACT	CGACCTCCCA	GACTTAAGCA	ATCCTTCCCA	AATAGCTGGG	ACTCCAGGG	300
CACCCCACTA	CAACTCGAG					319

(2) INFORMATION FOR SEQ ID NO:1070:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1070:

GAATTCGGCC	TTCATGGCCT	ACTTCTAAAT	GGCAAACAGT	TGTCTTGAAG	GCAC TGTCTT	60
TTTCTACCTA	GATGTTGGGT	GGAAAAAAA	AAAAAAAAGC	TGCCTTTTAT	ATAGAAGTTC	120
TTGGGAATAT	TTCTCATATA	GTGAGATGAA	CAGAACGAA	AAGTTTTCTT	CCTGCAGGAT	180
CTCCCCAAAT	CCTTCTTGGC	TTGAATTTTT	CTTCTCACTT	TTTCTTTGTA	AAAGCTTTGT	240
TCCTTTTGCA	CCTTGAAAAA	ATAAGTCTTG	TTTGTCTG	CAGCAGAGTG	CAAGCATCTA	300
TTGCATCAAA	ATTCCAAGT	GGAAATAGAAA	ACCAATGGTC	CTTTCTGAA	TTTCGTTAGC	360
AGTAGCAACA	AAACATTTCAT	TATAACCTCG	AG			392

(2) INFORMATION FOR SEQ ID NO:1071:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 421 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1071:

GAATTCGGCC	TTCATGGCCT	ACACAAATGGG	AATCCAAGGA	GGGTCTGTCC	TGTTGGGCT	60
GCTGCTCGTC	CTGGCTGTCT	TCTGCCATTG	AGGTCA TAGC	CTGCAGTGCT	ACAACTGTCC	120
TAACCCA ACT	GCTGACTGCA	AAACAGCCGT	CAATTGTTCA	TCTGATT TTG	ATCCGTGTCT	180
CATTACCAAA	GCTGGGTTAC	AAGTGTATAA	CAAGTGTGG	AAGTTTGAGC	ATTGCAATTT	240
CAACGACGTC	ACAACCCGCT	TGAGGGAAAA	TGAGCTAACG	TACTACTGCT	GCAAGAAGGA	300
CCTGTGTAAC	TTAACGAAC	AGCTTGAAAA	TGGTGGGACA	TCCTTATCAG	AGAAAACAGT	360
TCTTCTGCTG	GTGACTCCAT	TTCTGGCAGC	AGCCTGGAGC	CTTCATCCCT	ATACGCTCGA	420
G						421

(2) INFORMATION FOR SEQ ID NO:1072:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1072:

GAATTCGGCC	TTCATGGCCT	AATCGGTAC	TGATAGTATG	TATTTCTTTA	GTAAGAATGT	60
GTTAAAATTA	CAATGATCTT	TTAAAAAGAT	GATGCAGTTC	TGTATTTATT	GTGCTGTGTC	120
TGGTCCTAAG	TGGAGCCAAT	AAACAAAGTT	TCATATGTAT	TTTCCAGTG	TTGAATCTCA	180
CACACTGTAC	TTTGA AAAATT	TCCCTCCATC	CTGAATAACG	AATAGAAGAG	GCCATATATA	240
TTGCCTCCTT	ATCCCTGAGA	TTTCACTACC	TTTATGTTAA	AAAGTTGTGA	TAATGTTAA	300
AATCTGTGAA	AGAATAAAA	GTGGATCCCC	TCGAG			335

(2) INFORMATION FOR SEQ ID NO:1073:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1073:

GAATTCCGCC	TTCATGGCCT	ACAAAAATAG	GCACAGTTTC	AGATGCTTCA	GCATATGAGG	60
CATGGATACT	TCAAATCATTT	GCAAAGGGTT	CTGCTCAGTA	GACTGAATGG	AAAAGATGGT	120
CATTGCTCTT	TAATGTAATT	TTGCAGCTCT	CATCAAAGAA	AATATCTCCA	TGAAATTAT	180
TGGTAACTGT	TTATCTTTGA	TCAGTGCAAA	CTGAAGTCAA	ATATACAAGG	TAAACACACA	240
TAAAGATAAG	TTCACACATT	TCTGTGAATT	TCTCAAATGT	ACACACTTCT	GCAAATTCTC	300
TAAATTCAACA	AATAACAAAT	TTGCATGCAT	GCAAGCATAT	GTGCACATGT	GCACACCTCG	360
AG						362

(2) INFORMATION FOR SEQ ID NO:1074:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 612 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1074:

GAATTCCGCC	TTCATGGCCT	ACCCAGGTGA	TCAATGTTTT	CAATGCGATC	AGTAATAACC	60
ATGTGCTCAT	GAATCAGATA	GGACTGAGGC	AAATAGGTT	CAGCCTTGAT	GTAAATAAGT	120
AACTCCAGTA	GGTTCTGGG	TGGCATAACA	ATGGAAGTGT	TCAGAGGGAT	CACATAGCAC	180
TTATCCAGGT	TAAGATCTAA	ATAGGCTGTA	AGTTCTTGT	TAAAGTCATG	ACAATGTTG	240
GCAGGATCAC	TATCTGCAA	CTCTGGGACA	GGCACACTGA	AAATTCAAC	TTCTCTTCTT	300
CAAAGATTT	AATATTTCT	TCAATTGTCT	GGTAGAGAGC	AGCTGGGCA	TCTGCAGAGG	360
GCTCATTAA	GATGACATCA	TCTTGATGT	ACTTTATTCC	ACAGTAGTAC	ACGTCATCTG	420
GTTGAAGTGC	AAAATATTG	TACAAGTATG	CTCCTCTAG	AATAACACCT	GCAAGCATAA	480
ATGCTAGTCC	AAAGCACATG	CACCAACCACC	ACCCGGCTAA	TTTTGTACT	TTTAGTAGAG	540
ATGAGATTTC	ACCCCTGTTGG	CCAAGATGGT	CTTGAECTCC	TGACCTCAAG	TGATCCGCC	600
ACACCACTCG	AG					612

(2) INFORMATION FOR SEQ ID NO:1075:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 252 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1075:

GAATTCCGCC	TTCATGGCCT	AAGTTTGTGG	TCCTCTGAGA	ATTCTCTGAA	GGAGGAAATG	60
GGTTGACCTA	TTTGGTTGCT	ATGAAGTAAA	AAACATCTTG	TTTTCATTT	TTAGTGAACA	120
TCTGGGTGTC	ATTTTATTATT	TCACATTCTG	GAGATTCTGT	AAAACCACAA	TTTGATAATA	180
TGAGGGTTCA	TCAAAGCGGT	AATTATTGAG	CTATTTTAT	AGTTGATTCA	AGAATTAGGG	240
TGGCGACTCG	AG					252

(2) INFORMATION FOR SEQ ID NO:1076:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 151 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1076:

GAATTCTAGA CCTGCCTCGA GTGTGATACC AGCAGCTATG AAGCAAACGT TATTAACCAA	60
GTCTTTTATT TTCTGTGTTG TGATGCATGA CTTTCATGGC CTTGTCAACC CTAGAGACCC	120
TGCCCCCTCCC ATAGCTAGCG AACGTCTCGA G	151

(2) INFORMATION FOR SEQ ID NO:1077:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 542 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1077:

GAATTCGGCC TTCATGGCCT AGGAAGTAGT CTAAAAAATT AACAGTTATG GTTTTAATAG	60
GATCTGAAAG ACAATCTTA AAGAAATGGG AGAAATTGGG GCTATCAGTG AACCTATACC	120
AACCTCTCTT TGTACATAAA TATGGTGATG TAGCTAGATA TAAAATCAG TGTCTTACTG	180
GCACCATTTA CAGTTAGAA AACAAATCTTT TTCTTAAAAA TGCCCATCTG ATTTCTATT	240
TTAGGAGCTA CTTGGATTTC TATGTATTTC TTCTACGTGA AAATATATGT ACTCTTCACT	300
TTTGTTCAG TACTATAATT GCTCATGCAC TCTTCTCC CTTTGAGAAC ATTCACTGAA	360
ATACAACCTTC ATCAAAGATT TGCTCAAAGG AGAAGAAATCG CATGAGTGTG AAAAGTAGAT	420
GCTCGTAGCC AGAACAGAAA AGGTTACACA TGATCATGGC ACAGAAGATA GGAGGTTTGA	480
CTTGGTGGGC CATAATGTTT ATTATCCTTT TTGAAATAAC AGGGACCCAGC AGCACTCTCG	540
AG	542

(2) INFORMATION FOR SEQ ID NO:1078:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 574 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1078:

GAATTCGGCC TTCATGGCCT AGGTTGCCAT TACTTGTGAT GCCTCTGAAT GTGGAGGCTG	60
ACTCTCCCGT CTCTCTGTCC CTCCTACCCC ACAGGGGCCGC AGCAAAAGCC ATCCCTGGCC	120
TTCGACTGGG CCATGTCTTC AGGAAGATTG CTGAAGAGGA GGGCCCGAAA TACCTGCCTT	180
TATAGGTTCC CAGAGTGCCTC TAGAACATTC TTGATACAT ATTTTTTAAA CAAGTAGGAC	240
TCCACCTTAT TTTCTCCAAT AGTCCCCAAG CAGTACAGGT CACTGTGAGA CATAAACATT	300
CTTCTTGTT GAGGGATCCA CGCCCTTGTT TCAGAAATGA CACCACAGAA GGCTGTGAGC	360
TCCAGGAGCA TGCCTGGGA TGTCCGGATG ACCGGGGTTT AAAGGTTTC CTATTCTCGA	420
TAAAGCCTGT GCGCACTGTA CGGGGAGTGG GGCTGAAGCG TGTTCTCAC ATAGCAACA	480

CAGCCGCCATA AGTCACAAAG TCAGTGGTCG GCGCCTCGA CCAACATGTG GTGAGCATTC	540
CACGGGGCCA TGAAGTCTGG GTGCTGTGCT CGAG	574

(2) INFORMATION FOR SEQ ID NO:1079:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1079:

GAATTCCGGCC TTCATGGCCT AGGGGCCAGG CGGCCGCCGC GAGTCTGGTA TCCTGAGCTT	60
CGTAGTTGA GCGCTGCTGC TCCCGGGTGG AGTCACCGCA CCGCTCCCG GATCATGGTG	120
TTCTACTTCA CGAGCAGCAG CGTTAATTCA TCTGCCTACA CTATTTACAT GGGAAAAGAT	180
AAATATGAAA ATGAAGATCT GATCAAGCAT GGCTGGCCTG AAGATATCTG GGAGAGAATA	240
TAGAAGACAT CCCAAAGAA GTGCTGATGG ACTGTGCGCT CGAG	284

(2) INFORMATION FOR SEQ ID NO:1080:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 359 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1080:

GTAACACCCA GAAATACCC TGCAATTCA GAGAACAAA ATCCATACCT GCCCTTCAA	60
TGGAAACACA GAAACTTGGT TCAGTTTGT CTCCAGAAC GCAAAACCT ACTCCTCTTA	120
CTCCCCCTGGA GCCTCAGAAA CCTGGCTCTG TTGTTTCTCA TGAGCTACAG ACACCTCTTC	180
CTTNTCTGTA GCCTTCAAAA CCTGCCTCTG TTTCTTCTCC TGAACCTCCA AAATCAGTCC	240
CTGTTTGTGA GTCTCAGAAA CCTGCCCTG TTCTTCTCC AGAACCCACAG AAACCTGCC	300
ATGTATCTCC TGAGTCAGTA AAGGNTACTA TTNGTAATCC CAAACCCAG ATTCTCGAG	359

(2) INFORMATION FOR SEQ ID NO:1081:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 474 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1081:

GCCCCGCAGA TGGGAAACGC ATCATATTCT GATTCCTACC TGGAAGGAAT TTTGTTGAAA	60
GGGGTTTCA CCTGTGAGCC TTGGTCTGTC TCGGTAGGGT GGTCAACTTC AGTGGACTGT	120
GGTTGGTTTC AGAGCGCCTG GCTGAGGAGT TCCACTGAGG GGAGCACTGG AGCAGCCCTT	180
TGGCAGAGGC TGAGGAGGGA GATGGACCA CGCACGCCCTG GCACCTGGCT CCATGGCATA	240
AGGAAAGGGA GATGCTGGCC TCTGTGCTCC TCTGTGCTTT TCCCTGTTCT GTTGTGCTTT	300
GACTTAGTAG CAACCGACAG AGTGGCAAGG GATTTGGTCT TCAGCAGTAG ACATCCTCC	360
ACCCCTGCC CGAGCCAAGT CTCTTGCTGC CATGCCAATG CTATGTCCAC CCTTGCCCT	420

CGGCCCAAGA GTGTCCAGCG GTGGCCCCT TTTTCCTCCC ACCACAAACCT CGAG

474

(2) INFORMATION FOR SEQ ID NO:1082:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 505 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1082:

```

GAATTCGGCC TTCATGGCCT AATGTGTGTC GCACAAAGAA GAAAGTGGAC TCTACACTGT
GTTAGTTAGG AAAACCAGAA ATTGGGCAA ATTGCCTGTT TAGTGGGAGA GATANCTTT
GAGAGCTGTG ATCCCCGCTGG TGTGGCTGGC TCTGGCAGA TATTTGTATC TGAAATGACT
CATGCTGTGG GACCCCTCCT GAGATCTAAC ACTTACAGTG GTTTGATGAG AAATTGCACC
ATGCTTGCCTA AGCAACTTTT GGACTAAAAG TTGCTGCCCA CGTATATCAG GGGAGAATA
TATATATATA TATATATAGT ACCTATCTTA GCATCTGATT TGTATGACCA TTACTTCAAT
GTAAAATAAT AAATTGGCTT TCCAGCTAA ACTTCAATTCTT CTGTATATT ATATGATCAT
GAGACAAACCT CCCTGGGCTG ATCAACAGCA GGACGCTAA AAGATTGAGT ATCTGAGTCA
GGAAGGTAGA GGGCCAAACC TCGAG

```

60
120
180
240
300
360
420
480
505

(2) INFORMATION FOR SEQ ID NO:1083:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 481 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1083:

```

GAATTCGGCC TTCATGGCCT ACTACTATTG AGAGACAACA GTGACACGGA CCTATGTGAT
GCTGGCCTTA GTGTGGGAG GTGCCCTGGG CCTGGGGCTG CTGCCCTGTGC TGGCCTGGAA
CTGCCCTGGAT GGCCTGACCA CATGTGGCGT GGTTTATCCA CTCTCCAAGA ACCATCTGGT
AGTTCTGGCC ATTGCCCTTCT TCATGGTGT TGGCATCATG CTGCAGCTCT ACGCCAAAT
CTGCCGCATC GTCTGGCCGCC ATGCCCAAGCA GATTGCCCTT CAGCGGCACC TGCTGCCCTGC
CTCCCACTAT GTGGCCACCC GCAAGGGCAT TGCCACACTG GCCGTGGTGC TTGGAGCCTT
TGCCGCCCTGC TGGTTGCCCT TCAGTGTCTA CTGCCCTGTG GGTGATGCC ACTCTCCACC
TCTCTACACC TATCTTACCT TGCTCCCTGC CACCTACAA TCCATGATCA ACCCTCTCGA
G

```

60
120
180
240
300
360
420
480
481

(2) INFORMATION FOR SEQ ID NO:1084:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 389 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1084:

GAATTCGGCC TTCATGGCCT ACCATTTTA TTAAACCAA ATCCATGGAA AATATCATGG

60

AAATGAATAA GCGTCTAAC	GAAGAACAAAG CCAGAAAAAC	ATTTGAGAGA GCCATGAAAC	120
TGGAACAGGA GTTTACTGAA	CATTCAACAG CTATTGTACA	GGGGGATACG CTGGAAGACA	180
TTTACAACCA AGTGAACAG	ATCATAGAAG AACAACTCTG	TTCCTTACATC TGGGTTCCGG	240
CAAAGAAAA GCTATGAAAA	CTCATGTTTC TCTGTTCTC	TTTCCACAA TTCCATTTC	300
TTGGCATACT CTTGCCCTT	TCCTCTGGAG TCTTCTTGA	GTACTGATT CATGTTGAAT	360
TGTATCCCAC ACATCATGGT	CATCTCGAG		389

(2) INFORMATION FOR SEQ ID NO:1085:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 350 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1085:

GCGATTGAAT TCTAGACCTG CCTCGAGACC	GCCTACGAAT GGAAATCCAT AAGAATGAGG	60
CTTGGCTCTC TGAAGTCGAAGC	GGCAAAACAG GTGGGAGAGG AGACAGAAA CATAGCAGTG	120
ACATAAATCA TCTTGTAAAC	CAGGGACGAG AAAGTCTGA GGGAAAGTTAC ACTGATGATG	180
CAAACCAAGGA AGTCCGGGG	CCACCCCCAGC AGCATGGTCA CCACAATGAG TTTGATGATG	240
AAATTGAGGA TGATGATCCC	TTGCCTGCTA TTGGACACTG CAAAGCTATC TACCCTTTG	300
ATGGACATAA TGAAGGTACT	CTAGCAATGA AAGAAGGTGA AGTACTCGAG	350

(2) INFORMATION FOR SEQ ID NO:1086:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 276 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1086:

GCTCCACCAAG CTACTGAGAA AATGGCCTGT	AAAGATCCAG AAAAACCCT GGAGGCCTGT	60
GCCTCAGCAC ATGTGCAACC CAAGCCTGCC	CCTGAAGCCA GTAGCCTAGA GGAGCCCCAT	120
AGCCCAAGAAA CAGGGGAGAA GGTAGTAGCA	GGAGAGGTTAA ACCCACCCAA TGGCCCTGTG	180
GGGGACCCAC TGAGCCTCTT GTTGGGGAT	GTGACATCCC TGAAAAGCTT TGATTCATTG	240
ACAGGTTGTG GTGACATAAT AGCAGAACAA	CTCGAG	276

(2) INFORMATION FOR SEQ ID NO:1087:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 295 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1087:

GCAGAGACTT AAAGGGTTAA TAAAAATTGT	AAAGCCAGCA GAGATTCAG AACTAAAAAA	60
GACTGAAACT CAGACTACAG GTGCAGAAAA	CAAAGCTAAA AAGCTTACAT TGCCCTATT	120
TGGTGCCATC AAAGGAGGAA GCAAATTCAA	ATTAAAAACT GGAACAGTAG GGAAGTTACC	180

CCCCAAGCGT CCAGAACTCC CTCCAACCTCT AATGAGAATG AAAGATGAGC CTGAAGTAGA	240
AGAGGAGGAG GAAGAGGAAG AGGAAGAAGA GAAAGAAAAG GAGGAGCAGC TCGAG	295

(2) INFORMATION FOR SEQ ID NO:1088:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1088:

GAAATGAGGG TCCCCTGAAGA AGCTCTTAAG CATGAGAACT TTACCATTCA GCTTCAGTTG	60
TCCCCAAAAT CTTCAGAACAT AGAATTATCC AAATCTGCAA GTGCCAAAAG CATAGATTCA	120
AAGGTAGCAG ACGCTGCTAC TGAAGTGCAG CACAAAATCA CTGAAGCACT GAAATCCGAG	180
GAAAAAGCCA TGGATATTTC TGCTATGCC CGTGGTACTC CATTATATGG GCAGCCGTCA	240
TGGTGGGGGG ATGATGAGGT GGATGAAAAA AGAGCTTTCA AGACAAATGG CAAACCTGAA	300
AAAAAAAAACC ATGAAGCTGG AACATCAGGG TGCCTCGAG	339

(2) INFORMATION FOR SEQ ID NO:1089:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 433 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1089:

GAATTCCGGCC TTCATGGCCT ACTCAAGAAT ACAGGTCTTA CTCGTATACT CTTTGAACAA	60
TAGGCTGTGT GACTAAAAGA GAGACACAAT CAATTGCTTC CCAGTCAGA AGCCAGAAAA	120
GCTTCAAAAC CTTTCCCCCT CCCTACTCCT TGCCACCGCA CCTAAAAAAA AGAGAAATCT	180
TTTAAGTGTT TAAAATCTGT AGGAGTCTTA TGAAGAAGCA GCTTTATGTG TATTCTTTAT	240
GGCATAATAT TAATGCATGA AAATCTGTTG CTTTTTTAAA AATTGTGGCA AAATATAACAT	300
AACATAAAAAT TTATCATTTT AGCTATTTTT AATATACAT TCACTAGCAT TAAGTATTAA	360
TACATTCAACA GCACCATTCG ACCATGGCC ACCATCATCT CCAGAACTTG ATCTTCTTC	420
ACGCCCCACTC GAG	433

(2) INFORMATION FOR SEQ ID NO:1090:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1090:

GACTGGGTCC ATGGGAGCAA GATTAGTGGC TGCTAAACTT GAACCGAAAAA GCTTCAAACA	60
TACCCATATA GATAAACCGAG ACTGCTCAGG GCCCCCCATG GACATAACTA ACAAGGCTTC	120
TGGGGAGATA AAAATTGCCT ATACTTACTC TGTTAGCTTC GAGGAAGATG ATAAGATCAG	180
ATGGGCGTCT AGATGGGACT ATATTCTGGA GTCTATGCC CATACCCACA TTCAGTGGTT	240

TAGCATTATG AATTCCCTGG TCATTGTTCT CTTCTTATCT GGAATGGTAG CTATGATTAT 300
GTTACGGACA CCACTCGAG 319

(2) INFORMATION FOR SEQ ID NO:1091:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 328 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1091:

GTGCAAATTG AGCACATCAT TGAAAACATT GTTGCTGTCA CCAAAGGACT TTCAGAAAAA 60
TTGCCAGAGA AGTGGGAGAG CGTGAACATC CTGTTGTGA AAACGTGAGAA ATCGGCTGCA 120
CTTCCCACATCT TTTCCTCGTT TGTCAAGCAAT TGGGATGAAG CCACCAAAAG ATCTTGTGCTT 180
AATAAGAAGA AAAAGAGGC AAGGAGAAAA CGAAGAGAAA GAAATTTGA AAAACAAAAG 240
GAGGAGAAGA AGAAGAGGC AGCAGGCTAGG AAGACTGCAT CAGTTCTTAG TAAAGATGTAT 300
GTGGCACCTG AAAGCGGTGA TACTCGAG 328

(2) INFORMATION FOR SEQ ID NO:1092:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 109 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1092:

GATCATGAAG TCCATCATCC CAGTGGTCAT GGCTGGCATH ATCGCCATCT ACggcctggT 60
GGTGGCAGTC CTCATCGCCA ACTCCCTGAA TGACGACATC AACCTCGAG 109

(2) INFORMATION FOR SEQ ID NO:1093:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 388 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1093:

GAATTGGGCC TTCATGGCCT ACTGGAATTG ATAAGTCTAA ATGGTTCTAT GAGTCTAAAA 60
TTAAAGTGTGTT AGCAGGGCTG GGCTTCCTTT GGAAGCTCTA GAGAATGATC TGTTTCATA 120
CCTTTCCAG CTTGTATGAG CTGACTACAT TCCCTAGCTC ATGGCCCTGC TGCCCACAGC 180
TTCAAATGAG ACAACACCAA GTTGGAGTCCT CTTTAGATCA CATCAATTAA AATCTCCTAC 240
TATTCAATT TCCCTGTGAC TCTCTTATGC ATCCCTCCTT CTCTTCAAAG GATCTTGTG 300
ATTATACTGG GCCCTCTGAA GAATCCATGA TAATCTTATC TCAAGGTGCT TAAGTTAAC 360
ACATTTACAA GATCTCCTTT TCCTCGAG 388

(2) INFORMATION FOR SEQ ID NO:1094:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 461 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1094:

GAATTCCGCC	TTCATGGCCT	AGGTGGCACA	TGCCTGTGGT	CCCAGTTACT	CGGGAGGCTG	60
AGGTGGGAGG	ATTGCTTGGG	CCCCGGAGGT	CAAGGCTGCA	GTGAGCCGTG	ATCTTGCCGC	120
TGTACTCCAG	CCTGGTGATA	GCGAGACCC	GTCTCAAAA	AATGCTTTTA	GGAAATTAA	180
TATGTCCGTG	GCCTGTTAA	TCATTGAAAA	CATTTAATA	TTTCAGAGC	CATAGAGGC	240
AGTAAAAAAC	AGAGTAGCAG	AATTGATTAT	ACCAAGTACTA	TTTATCCAAT	GGCTAATACA	300
ATAAGACTC	TCAGGGATAA	TTCACACGTG	CTTCCAAGAA	CACTAGATGG	CACCAATTAT	360
TTAGGATTCA	GACTACCTCA	GGGAACAGCT	GTCTTCATTG	AACAAATATT	TATTAATCAA	420
TGAACAAAAC	AAAATATCT	GTCATTGTGG	AGCAGCTCGA	G		461

(2) INFORMATION FOR SEQ ID NO:1095:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1095:

GAATTCCGCC	TTCATGGCCT	AAACCTATGC	AGATGCCGTG	GATGAGTTCC	TGGATCCCAT	60
TATGAGCACA	CTGATGTGTG	ACCCGTGGT	GCTGCCATCT	TCCAGAGTCA	CTGTGGATAG	120
ATCCACCAATT	GCAAGACATT	TGCTCAGTGA	CCAAACAGAT	CCCTTTAAC	GTAGTCCCT	180
CACCATGGAC	CAGATCCGGC	CAAACACAGA	ACTAAAAGAA	AAAATCCAAC	GGTGGCTTGC	240
AGAGAGGAAA	CAACAAAAGG	AGCAACTTGA	ATAGATACTG	TGAACAAACC	AAACCAAAAC	300
CAACCCCCAGA	TCTCGAG					317

(2) INFORMATION FOR SEQ ID NO:1096:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1096:

GCTGCAGCCA	ACGCCAGCT	CCACTGGAAAG	AGGATGGAGA	ACCTCAAGGA	GGAGGAAGAT	60
GACGACTCCT	CCACAGCCTC	AGACAGCGAT	GTTCTCATCC	GGGACAACTA	CGAGCGGGCA	120
GAGAAGCGGC	CCATCCTGTC	TGTGCAGAGA	CGTGGATCTC	CCAAACCCGTT	TGAATCACA	180
GACCGGGTGG	AAATGGGACA	AATGGCCTCC	ATGTTCTTC	ATAAAGTGGG	GCTCAACTTG	240
TTCTATTCT	GCATCATCGT	TTACCTGTAT	GGAGACCTCG	CCATCTATGC	TGCTGCCGTG	300
CCCTTCTCCC	TCATGCAGGT	GACCTGCAGC	GCCACTGGCA	ATGACTCCTG	GGCGCTCGAG	360

(2) INFORMATION FOR SEQ ID NO:1097:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 311 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1097:

GAATTCTGGCC TTCATGGCCT AGTGAGCCAC CGCACGGGGC CTAACGATGA TGAGAAATTG	60
ATGTGACATC TGCAGGATCC CCAGCTAGTC AGCAGCATCT AGAGGGCTAG AACTCTGGCC	120
AGCTGACTGG GCCTTTGCT AACTGTTTTC TGTCCTCTCT GTGCCGGGGT GTCACTGAGC	180
TTTGCGGGAC AGGCTGGTCT GTCGTGCCTT CAGCTCAGGG AATGTGGCTC CCGAGCATAG	240
GGCTGGACTG AGAGGGCTTA GGTGAGCCAG AGAACAGGCTC AGACACAGGG CTTAGAGAGG	300
GCTCCCTCGA G	311

(2) INFORMATION FOR SEQ ID NO:1098:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 436 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1098:

GAATTCTGGCC TTCATGGCCT ACCTGCAGCT CTACAATAATA TTTTCAAACG GCTTGATATT	60
GAGAACAAAG GATACCTGAA TGTCTTTCA CTTAATTATT TCTTTAGGGC CATAACGGAA	120
CTAATGAAAA TCCATGGACA AGATCCTGTT TCATTTCAAG ATGTCAGGA TGAAATCTTT	180
GACATGGTAA AACCAAAGGA TCCTTTGAAA ATCTCTCTTC AGGATTTAAT CAACAGTAAT	240
CAAGGGAGACA CAGTAACCAC CATTCTAACG GATTGAAATG GCTTCTGGAC TTACGAGAAC	300
AGAGAGGGCTC TTGTTGAAAGA TGACAGTGAA AACTCTGCAG ACCTTGATGA TACATGATCT	360
CTGAAAGACT AGACTGCTT ATATTATGAG ATACTTGAAAT GCTGCATGTA AAGCCTTTAA	420
AGCAAAAAAC CTCGAG	436

(2) INFORMATION FOR SEQ ID NO:1099:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 291 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1099:

GAGAAGATGC AAGTGGACCA GGAGGAACCA CATGTTGAAG AGAACACAGCA GCAGACACCA	60
GCAGAAAAATA AGGCAGAGTC TGAAGAAATG GAGACCTCTC AAGCTGATC CAAGGATAAA	120
AAGATGGACC TACCACCCCA AGCCAAGAAG GCAAAAGTGA AGACCAAGTAC TGTGGACCTG	180
CCAATCGAGA ATCAGCTATT ATGGCAGATA GACAGAGAGA TGCTCAACTT GTACATTGAA	240
AATGAGGGTA AGATGATCAT GCAGGATAAA CTGGAGAAGG AGCGGCTCGA G	291

(2) INFORMATION FOR SEQ ID NO:1100:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1100:

GAATTCCGCC TTCATGGCCT AGTCATTTTA TAGGTTAAAA AAAGGTCAAA TTGTGACAAT	60
TTCATATGGT ACAATATAAA ATTATATTTAA ATATACTCGA G	101

(2) INFORMATION FOR SEQ ID NO:1101:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 492 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1101:

GAATTCCGCC TCATGGCCTA AGAAATACAT AGATCAAGTA AAACTCCAAC TACTGTAGCT	60
CCAATTGGTA AACTAAGTTT CTAAGACCTC TTTTATTTCC TATGGAGTTA TTCTTTAATT	120
TACAGTTTAT TCTGTAAGTT CGGAAGTAAA ATAGAGAAAA TAATAAATCT AGATGTTCTC	180
AGTGTCTTAT TCAGGAACCTT TTIATCCCTC CTCACTAAGG AATTCCCCACT GTGACTTTAA	240
AATAGAACTA AATTACTTGT GTGCATGTAT ATGTCGTAT TTTTACACA CATGCAAAAA	300
TATACATTGG GGGCACGTGT GTGAGAGATA TGAATGTGTG CTTATATAAA AATAGATAAA	360
GGTAACCGAA TGTATTGTAG AACATGATT TATTTAGTTG AGGGTATTGG AGTTACTTTC	420
TCATTGTCCTC TGTTGTATAA ATACACCAAA TTAATCATTA TGTTATCTTA TGTTAAAAGG	480
CTAGCTCTCG AG	492

(2) INFORMATION FOR SEQ ID NO:1102:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 343 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1102:

GAATTCCGCC TTCATGGCCT AGGCCTGCGT TAATACTCTT AATTATAGAA ACAATCCTTA	60
ATTAATAAAC AAGTCCTTTC ATTGGAAAAA GAACTAATAC ATTTTGTCT CTCAGTCAAA	120
ATTCTGTTTT TGTGCTTAGA GTAATAAAAT GGTAAACACCT AGGGTCTGCC ACGATCATGG	180
TTCTCACTCT GGATTCACTT CCTACCACAT CCTTATTTCC CTCCCTCTCC CCATCCCTC	240
ACTCACCCCTC CTCCCTTCTC TCCCTCACTC ACCCTCTCT CCCCCATTC CTCACTCACC	300
CTCCCTCTTT CCTTCCCTCA CTCACCCCTCC CCCTTCCCTC GAG	343

(2) INFORMATION FOR SEQ ID NO:1103:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 282 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1103:

GAATTCGGCC TTCATGGCCT AACCGGGCAA	AAAAAAAAAA	AAATCTTAAA	AGCACTAACT	60
TACTATCAA TCTCAAGAAA	CAGAAGCAAT	TCACAAAAAT	CAATACTATC	120
GTAACACTTT CTTCATTCCT	AATGTATGAG	ACAATAAGG	ACATTTAGC	180
TTCCCTTCATT TAGTGACTTC	CACATTCTC	TCACCACTTT	TCCTTTACTC	240
CTGATGAACC TTAAACTTGA	AAGGCACAGG	TCCAGCCTCT	GGGTGTGGTT	
				282

(2) INFORMATION FOR SEQ ID NO:1104:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1104:

GCGATTGAAT TCTAGACCTG TCTTACGCTT	CCCTTCCTAA	GCCTTTGTCT	ACTCTGCTTT	60
GTCTGTTTT ATGCTTCTCT	CTCTTTGTC	TGAAGTGGTC	TCTGTCCTCG	120
AAAGCTCTAA TCAAATGCCA	CTGTCTTTAT	GAAGGGCTCC	TGATTGTTCA	180
AAGCTTTAT TCCTTGAAAC	TCGAG			205

(2) INFORMATION FOR SEQ ID NO:1105:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1105:

GAATTCGGAC TTCATGGCCT ACGTTTTAT	TACAAATATT	ACATTAAC	AAAGCTCACA	60
ACTGTTACTA TGCATCAGGA	ATTAACAGTC	ATTCCTCATT	TGTGTTATTG	120
TCACATATAG TGACTATCTC	TTTATGGGTT	AAATATCAGT	TCCTTGGCCA	180
TCTGCCCTA ACNAATCCTA	CTTCTCCCAG	TACCCCTACA	GCACCTCTAC	240
ACCCTCGAG				249

(2) INFORMATION FOR SEQ ID NO:1106:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 237 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1106:

AATTCTAGAC CTGCCTCGAG ATTGTCTGCC AGTTAAATTC TTTAAAACCTC AGTTTAGCTG	60
TCCTTTCTT TGGAACACTT TCCCTAATCT TCCCCACAC CTGTCATCA ACATATATAG	120
AAGCACATTT ACTCTCTCAT TCTCTCTCTT TCTCTCTCCA AGTCTATGTT AGGTGTTTTA	180
GGGTTTATCA TAGGTTATG TTTACTTATC TCCCCACTAG TCTATGAAAT CCTCGAG	237

(2) INFORMATION FOR SEQ ID NO:1107:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1107:

GATTTATTAT AAAGCTGCAA AGAAGCTGTT GCACTCAGGA ATGAAAATTC TTAGGCCAGGA	60
AAGAATTCAAG AGCCTGAAGC AGAGCATAGA CTTCATGGCT GACTTGAGA AAACTCGAAA	120
GCAGAAAGAT GGAACAGACA CCTCACAGAG TGGGGAGGAC GGAGGCTGCT GGCAGAGAGA	180
GAGAGAGGAC TCTGGAGATG CGGAAGCACA CGCCTTCAG AGTCCCAGCA AAGAAAATAA	240
AAAGAAAAGAC AAAGATATGC TTGAAGATAA GTTTAAAAGC AATAATTAG AGAGAGAGCA	300
GGAGAGCCCTC GAG	313

(2) INFORMATION FOR SEQ ID NO:1108:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 467 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1108:

GCGAGAACAC CATCACCATG ACAACCAGTC ACCAGCCTCA GGACAGATAC AAAGCTGTCT	60
GGCTTATCTT CTTCATGCTG GGTCTGGAA CGCTGCTCCC GTGGAATTTT TTCATGACGG	120
CCACTCAGTA TTTCACAAAC CGCCTGGACA TGTCAGGAA TGTGTCCTTG GTCACTGCTG	180
AACTGAGCAA GGACGCCAG GCGTCAGCCG CCCCTGAGC ACCCTTGCC GAGCGGAAC	240
CTCTCAGTGC CATCTTCAC AATGTCATGA CCCTATGTC CATGCTGCCG CTGCTGTAT	300
TCACCTACCT CAACTCCTTC CTGCATCAGA GGATCCCCA GTCCGTACGG ATCCCTGGCA	360
GCCTGGTGGC CATCTGCTG GTGTTCTGA TCACTGCCAT CCTGGTGAAG GTGCAGCTGG	420
ATGCTCTGCC CTTCTTGTC ATCACCATGA TCAAGATCGC GCTCGAG	467

(2) INFORMATION FOR SEQ ID NO:1109:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1109:

GAATTGCGGA AACGGTCGTT CCACTCGCTC CAATGTGGCC CCCAGGCACC TACCTGATAG	60
CCATATGGGT CGAG	74

(2) INFORMATION FOR SEQ ID NO:1110:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 427 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1110:

GAATTCCGCC	TTCATGGCCT	AGGAATTAG	GAACCAAGAT	ACTGGGGTGT	TATTGTTTCT	60
AAGCTCTTC	AGTGAACAGA	TCTAGGAAAT	ACATGTGTTG	CCTAACCAT	GAATACACAC	120
TAAAATATAA	TTATTTCTGT	ATCTATGTCA	AGCTAAACCT	AAGTTCACAT	TGAGGTTTCT	180
GACTTTATA	CACTCCCACA	AGGTTGTTTC	TAGCTTTCT	TCCTTGATA	CCTTGACTT	240
TCCTCTCCAG	CTGTGGAAA	CTTGGCTCTC	TCCATCCACC	ACCCCTTCAC	TATTTGTTTA	300
ACCGTTGTCAC	ATATATAAAG	CAGCGTTGGA	ACTGTCAACC	TGTGTCCTCAT	GAGAAACTTT	360
ACCCACTAGA	GTACAGCGTT	TATGCAGTTC	TTTTGTAGT	TTTTATAGAT	TATAGCCAAA	420
ACTCGAG						427

(2) INFORMATION FOR SEQ ID NO:1111:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 372 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1111:

GGTGAACCCG	AATCACCGAT	GGATGTGGAT	AATTCTAAAA	ATAGTTGTCA	AGACTCAGAA	60
GCAGATGAGG	AGACAAGTCC	AGGTTTTGAT	GAACAAGAAG	ATGGTAGTTC	CTCCCAAACA	120
GCAAATAAAC	CTTCAAGGTT	CCAAGCAAGA	GACGCTGACA	TTGAATTAG	GAAACGGTAC	180
TCTACTAAGG	GCGGTGAAGT	TAGATTACAT	TTCCAATTG	AAGGAGGAGA	GAGTCACACT	240
GGAATGAATG	ATTTAAATGC	TAAACTACCT	GGAAATATT	CTAGCCTGAA	TGTAGAATGC	300
AGAAAATTCTA	AGCAACATGG	AAAAAAGGAT	TCTAAAATCA	CAGATCATT	CATGAGACAG	360
CCCAAACCTCG	AG					372

(2) INFORMATION FOR SEQ ID NO:1112:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 108 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1112:

GAATTCTAGA	CCTGCCCTGA	GCTATAACCTG	TATCCAGTCT	TGATGCACAC	CAGGCTGGGC	60
ACTTTCCAGA	AACTACCTCT	AACCTCCAGG	GTTCCTCAT	CACTCGAG		108

(2) INFORMATION FOR SEQ ID NO:1113:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 382 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1113:

GAATTCCGCC	TTCATGAAGA	TTGAGAAGAA	GGAGGAAAAA	AAGCCTGAAG	ACATTAAGAA	60
GGAAGAAAAA	GACCAGGATG	AGCTGAAACC	CGGACCTACA	AATCGGTCTA	GAGTCACCAA	120
ATCAGGAAGC	AGAGGAATGG	AGCGGACGGT	CGTGATGGAT	AAATCGAAAG	GAGAGCCCGT	180
CATTAGCGTG	AAAACCAAA	GCAGGTCCAA	AGAGAGAACG	TCCAAGAGTC	AGGATCGCAA	240
GTCAGAAAGC	AAAGAAAAGA	GAGACATCTT	GTCGTTTGAT	AAAATCAAAG	AACAAAGGGA	300
GAGAGAGCGC	CAGAGGCAGC	GGGAACGGGA	GATCCGCGAA	ACGGAGAGGC	GGCGGGAGCG	360
CGAGCAGCGG	GAGCGCTCTCG	AG				382

(2) INFORMATION FOR SEQ ID NO:1114:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1114:

GAATTAGCAA	AGGAAATCTC	AGATTGCATT	TCCAAAGATG	GTTGCTAGCT	GCTGCCGTT	60
CCTTTGCTAT	TTCTGTCGAA	TTAGCCGGCA	AAATCAGAAAG	GCCATGTTG	AGCATCTGAG	120
TTATCTCTG	GAGÁATAGCA	GTGTTGGCCT	AGCCTCCCG	TCGATGAGGG	GATCCACCCC	180
GCTGGATGTG	GCAGCTTCCT	CTGTGATGGA	CAACAATGAG	TTAGCGCTGA	GCTTAGAGGA	240
ACCAGACCTC	GAG					253

(2) INFORMATION FOR SEQ ID NO:1115:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 76 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1115:

GAATTTTTTT	TTTTTTTAAA	GAAAGAAAAC	TAGGGCGATG	CAATGTCCAG	ACAGAAGCCG	60
GGGGCCGGGG	CTCGAG					76

(2) INFORMATION FOR SEQ ID NO:1116:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 70 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1116:

GAATTCCGCC TTCATGACGA CCCCGTCCAC CTCGCAGGT CGCCAGAACT ACCACCAGGA	60
CACCCCTCGAG	70

(2) INFORMATION FOR SEQ ID NO:1117:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 526 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1117:

GAAAATGAAA AGTTCTGTCT TTGATGAAGA CAAAACTTT GTAGCAGAAA CATTGGAAAT	60
GGGTGAGGTT GTTAAAAGG ATACAACAGA ACTCATGGAA AAACTTGAGG TAACCAAGCG	120
AGAGAAAATTA GAGCTGTCAC AGAGACTGTC-TGATCTTTCT GAACAATTGA AACAGAAACA	180
TGGTGAGATT AGTTTTCTAA ATGAAGAAGT TAAATCTTTA AAGCAAGAGA AAGAACAAAGT	240
TTCATTGAGA TGAGAGAGC TAGAAATCAT TATTAACCAC AACAGGGCAG AAAATGTACA	300
GTCATGTGAT ACTCAAGTAA GCTCTTTATT AGATGGAGTT GTGACTATGA CAAGCAGGG	360
TGCTGAAGGA TCAGTTCTAA AAGTAAATAA AAGTTTGGT GAAGAATCAA AAATAATGGT	420
CGGAAGATAAA GTTTCTTTTG AAAATATGAC TGTTGGAGAA GAAAGTAAGC AAGAACAGTT	480
GATTTGGAT CACTTACCAT CTGTAACAAA GGAATCTTCA CTCGAG	526

(2) INFORMATION FOR SEQ ID NO:1118:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 190 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1118:

CGATTGAATT CTAGACCTGC CTCGAGCCGA CCTACTCCAC AGCTGTCTG ACTGTGTAAG	60
CGAGATGATG ATTAGTGATC AGACGAAAGG ATTCCTGTCA TTGGTAACCC TCTCAAAGTA	120
TTTGGAAAAC AGTTCAATTTC TCATCTATTTC CAGAAGCAGC CCCTGGTGTCA TATTGAGGCT	180
CACCCCTCGAG	190

(2) INFORMATION FOR SEQ ID NO:1119:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1119:

GAATTCCGCC TTCATGGCCT ACCATCCTGC ACTCAACCAA TCATCTGATG CTGACTCAGA	60
AGCTCTGTTT GGAGTACCTA ATGATAAGAA TTTACTGTGG GCTTATGCTG TTATCGGTAC	120

TTACATGTTCTAGTTC	TTAGTTCCTG	TCATTTTTTT	TTGTCTGTTT	TTAAAGAATA	GCTCAAAGCA	180
AGAAAAAGCA	AGAGCATCTG	CTGAGACATT	TCGAAGAGCA	AAATATCACA	ACGCCCTTCT	240
TTGTCTCCTT	TTCTGTTCT	TCTTTTTTA	TGTTGGAGCT	GAGGTAACAT	ATGGCTCTTA	300
TGTTTCTCA	TTTCAACCA	CCCATCTCGA	G			331

(2) INFORMATION FOR SEQ ID NO:1120:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1120:

GAATTCGGCC	TTCATGGCCT	ACAGATTGCA	ATCTTTACAA	CCAGAACGTC	AGGGAGAGAT	60
TGAAGGAGGA	GGAGAACACA	GTGGGTATGT	TCAGATTGCT	TTGGGTACC	CTTGATCCAG	120
CCACATTGTC	TACCTAGAT	GGGTGCTCAT	GGTACTTCTT	GGTGGCATT	CAATAATAGG	180
TTGAGTTGTA	TACCGTCTGT	CCTTACACTA	CATTATGAAA	ATGAGATTAT	TAAATAAGAA	240
TTTGATGTA	GCTGATAAGC	TAGTGAATT	GGCACATGAT	CCCTTTTATA	CCCAGCCCTC	300
CTGTCTGGTG	TGCTTGAGGT	AATAATAACC	CCTTTTATAC	CCAAACCTCG	AG	352

(2) INFORMATION FOR SEQ ID NO:1121:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 484 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1121:

GAATTCCGGCC	TTCATGGCCT	ACCAATCTCT	TTTACTGAGC	ACAATGTGGG	TAAAATGCT	60
CTCTATAGTA	GCAGAATTTC	GTTTTCCCC	TTCCCTAGTT	ACTGATGAAG	AGACAGCTTC	120
AGATGCTCTG	GAGAGAAACT	CTCTATCCTC	TCAAGACCCA	CAGCAGCCCA	CCAGTACTGT	180
CTCAGTAACG	GAAGATTCTA	GTACATCGGA	GATTGACAAG	GAAGAGAAAG	AACAAACAC	240
TCAAGATCTT	GACTTGACCA	CCGAAGCAAA	TCCTCAGTAT	TTAGGACTGG	CAAGAAAGAA	300
AAGTGGCATC	CTGCTGCTCA	CGCTGGTGTC	CTTCCTCATT	TTCATACTCT	TCATCATAGT	360
CCAGCTCTTC	ATCATGAAGC	TGAGGAAAGC	ACATGTGATA	TGGAAGAGAG	AAAACGAAGT	420
TTCAGAACAC	ACACTAGAAA	GTACAGATC	AAGGTCAAAT	AATGAAGAAA	CATCATCGCT	480
CGAG						484

(2) INFORMATION FOR SEQ ID NO:1122:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1122:

GAATTCCGGCC	TTCATGGCCT	ACTTATGTTT	TTCTCATTG	TTGACCTAAA	TGATCTTAT	60
-------------	------------	------------	-----------	------------	-----------	----

CCAAACTATT CCAAATCTG AATTCTGGG TCCTTCTTC TTTAAATAT TCTGTTCAAT	120
ATTAACAAA CAAACGTTG AGAACATGAG TAACCTTTG ACTTTATCCC GTATCTGTT	180
GCTAATGTTG TGTCATGT CTTCTTGTC AGAACACACT GTGCAGCAG CTAGGAGTCC	240
ACTCGAG	247

(2) INFORMATION FOR SEQ ID NO:1123:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 276 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1123:

GAATTCCGCC TTCATGGCCT AGGAGGAAGC TAATAACACA CTGTCAGAT TGTATAACCTT	60
CTTGGTTCT TTTAAGAATT TGTGCTTT CTACTATTAC AGCAAAGCAG CATTGGTTA	120
CTGACTGCCT AAAATCACTT AATCTCAGGT GAACGCATCA CTTGCCAAC TGTTGGAATG	180
CTATTTGTGT TTGTTGAC TGTGTTTTC GTTGTTGTGT TTGTTTATTT GGTTGGCTTT	240
TTGGAGAGGG AAATTTGAA ACGGGACACA CTCGAG	276

(2) INFORMATION FOR SEQ ID NO:1124:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 252 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1124:

GAATTACTAG CAGAGATCA TGCTATAAGG GAAAAGGAGA TTGATTTGAA AGAAACTGGA	60
AAAAGAGACA TTCCCATGAT GGAGAAAGTA TCAGGAAAGA TGGCTGTTGT TGAAGAAATG	120
GAGGCAGATT TGAAAGAAC TGGAAAAGAA AATTTTAGAG AGAGAGGATC TGAAGAGATC	180
TGTGTTACTG AGGAAAAGGT GGCAGAATTG AAACAAACTG GAAAAACAGA CATTCTCCA	240
AGGGCCCTCG AG	252

(2) INFORMATION FOR SEQ ID NO:1125:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 317 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1125:

GAATTCCGCC TTCATGGCCT AACAGAATA TTCTGAGGCT AAAAGAAAAT ACACCCCCGC	60
AAAATCAAT ATAACATGAT TAAAGTACAC AAAACATGCA GCCCATAAAA CATATTCAC	120
CTATGAAACT GAGACTGAGG AATTTAACAG TAAACAGTC TTTGTTAAAG AAATATTTT	180
ACAATTATT GCCTATGTAT AAGGCAGCAG CCCTGTACTC TCTGTTATTT TCAATCTCTT	240
CCCTACTCT GGCTCTTCCT CAGCATATAA ATATGTTCT ATCCCTACCT TATGAAACC	300
ATTCCCCATC CCTCGAG	317

(2) INFORMATION FOR SEQ ID NO:1126:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 382 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1126:

GAATTCCGCC	TTCATGGCCT	ACTTTGTAAAC	TGTGAAATAC	TCTCCAGGAT	TTAAAAGGCT	60
GTGGAGCTCC	AGATAAAAGAA	TCGTTTATCT	TTCTTCTGAA	GAAATTCCCT	TGGTTACAAG	120
TTTACCCAT	AAACGCAAC	ACACTCACCT	CCATCCAAGA	CAGACTCAAG	GTGGAGGAAG	180
CGTGGAAATG	TGCTTCCGGA	CAAAGCTCTC	AGTATCCTGG	GTGCCATTGT	TTCTTCTACT	240
CAGCGGTGTT	TTTTCTACTG	AGACAGACAA	ACCCTCAGCC	CAGGACAGCA	GAAGCCGTGG	300
GAGTCAGGC	CAACCGGCAG	ACCTGCTACA	GGTTCTCTCT	GCTGGTGACC	ACCCACCCCCA	360
CAACCACTCA	AGAAGCCACT	CG				382

(2) INFORMATION FOR SEQ ID NO:1127:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 334 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1127:

GAATTCCGCC	TTCATGGCCT	ACAGACTTCT	GTGTGTGGGA	CTGAAGCACC	TGTTGTGCAA	60
TCTGAAGAAG	CTCTGGTTGG	TCAGCTGCTG	CCTCACATCA	GCATGTGGTC	AGGATCTTGC	120
ATCAGTATTG	AGCACCCAGCC	ATTCCTGAC	CAGACTCTAT	GTGGGGGAGA	ATGCCCTGGG	180
AGACTCAGGA	GTCGCAATT	TATGTGAAAA	AGCCAAGAAT	CCACAGTGTA	ACCTGCAGAA	240
ACTGGGGTTG	GTGAATTCTG	GCCTTACGTC	AGTCTGTTGT	TCAGCTTTGT	CCTCGGTACT	300
CAGCACTAAT	CAGAACATCA	CGCACCATCT	CGAG			334

(2) INFORMATION FOR SEQ ID NO:1128:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 251 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1128:

GAATTCCGCC	TTCATGGCCT	AGTCTGTCCA	TCTGCTTTCT	CTGGACCTCC	TTCTCATACT	60
TTGAATTTTT	TAAGTAGTTT	GTCCCTCATA	TGATTTTTT	TCTATTCCCT	TTTCCCTTCC	120
TGTCCTTCT	TCACTCCTT	CCCTCCCACC	TCCCTCCCTC	CCTTCCTCTC	TCCCTCCCTT	180
CCTTCCTTCC	ATCCAACCAT	CCATCCATCC	ATCCATCCAT	CCATCCATCC	ATCCATCTAT	240
CCACTCTCGA	G					251

(2) INFORMATION FOR SEQ ID NO:1129:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 372 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1129:

GAATTCGGCC	TTCATGGCCT	AATTTCATGT	NCCTTTGAGC	TATCTTTCCA	TTTTGTAGGA	60
ACACCGTCAAC	AGGAGACAAT	TTCATGGACC	TTTGAGCTGT	CTTTCCATT	TGTGGAAACG	120
CCGTACACAGG	AGACAATTTC	ATGTGCCTT	GAGCTGTCTT	TCTATTTGT	AGGAACGCTC	180
TCAGAGGGGA	CAATTTCATG	TGCCCTTGAG	CTGTCTTCC	ATTTTGTAGG	AACACTCAC	240
GCAGTGCTTG	GGGTMCACTG	TTACCTAAAT	CCCATGATGG	GTGAGAACAC	TGAATGGAC	300
GTTTATTTT	TGTGTTAAA	AGCCACGCA	AATAGAGTTT	AAAATAGTCT	CAGTGAGCTG	360
GGCATTCTCG	AG					372

(2) INFORMATION FOR SEQ ID NO:1130:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1130:

GAATTCGGCC	TTCATGGCCT	AGTGCCTAGT	TACAAGGTTT	TATTACAGCA	GTATTTCTAA	60
ACATTTGGTT	AGTCTGTCTC	TGCTTTCCC	ACCATAATT	TCTAGCACTT	GTAGCTCACC	120
TTATCTCCA	CTTCCCTTTT	AAATAGAAA	ACAGGCTGT	TCTGTTTGA	CCAGGTATAA	180
CTCTTTGCTC	AGACTGTCTC	AAAGCCAG	AAAACTATT	CTCTAGTGGT	CCAATGAACT	240
GTTCCTTCAATT	GAAAGTTTGC	CTCATGTCAC	TCGAG			275

(2) INFORMATION FOR SEQ ID NO:1131:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1131:

GAAAATTGAG	CCTATGTTGG	AGACACTGGA	GAATCTTCC	TCTCGCCTGC	GTATGCCACC	60
ACTGATCCCT	GCTGAAGTAG	ACAAGATCG	AGAGTCATC	AGTGACAATA	AGAGTGCAC	120
CGTGGAGCTA	AAAAAACTGC	AGGCATCCTT	TGAGGCCTTG	AAGCGCCGTG	GAGAGGAGCT	180
TATTGGACGA	TCTCAGGGAG	CAGACAAGGA	TCTGGCTGCA	AAAGAAATCC	AGGATAAATT	240
GGATCAAATG	GTATTTCTCT	GGGAGGACAT	CAAAGCTCGG	GCTGAAGAAC	GAGAAATCAA	300
ATTTCTTGTAT	GTCCTTGAAT	TAGCAGAGAA	GTTCTGGTAT	GACATGGCAG	CTCTCCTGAC	360
CACCATCAA	GACACCCAG	GACTCGAG				388

(2) INFORMATION FOR SEQ ID NO:1132:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1132:

GAATTCGGCC TTCATGGCCT AAAGTTTAC CAGCTAAAGT GCAGTAGTGT CACTTTTTC	60
CTGTCATAT ATAGAGACTT CTAATCATA ATCATCCTT TTTAAAAAAA AGAATTAA	120
AAAAGATGGA TTGACACAC TCACCATTTA ATCATTCCA GCAAAATATA TGTTTGGCTG	180
AAATTATGTC AAATGGATGT AATATAGGGT TTGTTGCTG CTTTGATGG CTACGTTTG	240
GAGAGAGCAA TCTTGCTGTG AACAGTGTG GACTCGAG	278

(2) INFORMATION FOR SEQ ID NO:1133:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1133:

GAATTCGGCC TTCATGGCCT AATCATTATA ATTTAGTTG AATTCTAAA ACCCCGTTAC	60
TAGAACTTAT GTTTAAATTAAATAATTATA AATAGTTATA AATTATAAAAT AAATTGAGAC	120
TGAGGCAGGA AAATCACTTG AACCCAGGAG GCAGAGGTTG CACTGAGCCA AGATCACGCC	180
ACTGCACTCC AGCCTGGGTG ACAGTGAGAC TCCATCTCAA AAAAAAAAAAAATTATATA	240
TAAATTCTGG TAAGTAAGTT TGAAGAAAAA CCGATTCAA TAGTATATAT TCAGCTTTAT	300
AAATTCTGTT AAGCATATTG GAATGAGAAT TTATTAAAAAT GGTTTATATT AAGTCTACGG	360
TTCTCGAG	368

(2) INFORMATION FOR SEQ ID NO:1134:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 441 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1134:

GAATTCGGCC TTCATGGCCT ACGTCTGATT CTCTAAGTTC ATTTCTTGGT GGTGGAGGCT	60
CATTTCTTCT GGAGTCACTG AAATTTTGG GATATCTTC GAAGCTTGA TCTTCCCTTC	120
GTGCAGTAGG TCGTGTCTTT TTCCCTCAC TTGACCAAC AAAGCGATCC CGCCTTCAA	180
AAGATGAAGA CTGTACTGCT GAACTCTAG GAAACCTGCC CCTCTCTCGG TGATCAAAGT	240
CATTAATCT GTTCTGTTGG CGAGAGTAGT CGGATCCATG GCCAAATCGT GCATCTGTAT	300
CTAGAGACAA CTTTTTATTTC TCGCTCCAGT AAGGATCATC TCGCCTATGA TCTACATCAC	360
GTGGGCGTT CAAGGAATTC CTTTTTCTT GTTCATAACG AAGCTGCTGT TGTTGCCCTTC	420
TGAGTTCCCTC TCTTCTCGA G	441

(2) INFORMATION FOR SEQ ID NO:1135:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 115 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(iii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1135:

GGGATTGAAT TCTAGACCTG CCTCGAGCAA GAAACGTTT CTAAGTCAA GGAATAAAC	60
CAAAGCCTCT AAGACTGGGT GAGAGAGAGG AAAAGAAATG ACCGAAGCAC TCGAG	115

(2) INFORMATION FOR SEQ ID NO:1136:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1136:

GAATTCTGGT TTTACTGAAG CTATGTTAGA AACGTCATGT AGAAACTCTT TAGATACTGA	60
GCTTCAGTTT GCTGAAAATA AGCCAGGCAT GTCTTGTG CAGGAAAACG TAAGCACAAA	120
GGGTGACGAT ACAGATGTCA TGCTCACAGG TGACACTTTG AGCACCTCAT TGCAGTCTTC	180
CCCAGAAGTG CAGGTACCTC CTACCTCCTT CGAAACAGAA GAAACGCCCG GTCGGGTACC	240
CCCGAGATCTC GAG	253

(2) INFORMATION FOR SEQ ID NO:1137:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1137:

GAATTGGGCT TCATGGACGA GGAGATCGTG TCCGAGAACG AAGCCGAGGA GAGCCACCGG	60
CAGGACAGCG CCAACCTGCT CATCTTCATC CTGCTGCTCA CCCTCACCAT TCTCACAATC	120
TGGCTCTTCA AGCACCGCCG GGCCCGCTTC CTGACAGAAA CCGGCCTGGC TATGATTAT	180
GGTCTTTGG TGGGCTTGT GCTTCGGTAT GGCAATTATG TTCCGAGTGA TGTAAATAAT	240
GTGACCCCTGA GCTGTGAAGT GCAGTCAGT CCAACTACCT TACTGGTAAA TGTAGTGGAA	300
AAATTTATG AGTATATGCT GAAAGGAGAG ATACTCGAG	339

(2) INFORMATION FOR SEQ ID NO:1138:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 363 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1138:

GAATTGGCC	TTCATGGCCT	AATTCAGAGG	TGGTGGGACC	TTGCCTATGA	TTCTGTTCAA	60
GCCCCCTAAT	TTTACAGATT	TTATGGAATT	GAGCAACAGA	CAAGATGATT	TTGCCTAGGT	120
TCATAAACAG	AAAAAAAGGA	GAGCCAGGAA	AGAACTCAAT	TGTTGTAAAC	TGCTGCTTG	180
TCTTGATGTT	CTGTCTTCAT	TCATCATCCA	GCCTTTCTA	GGAGTGTAG	AGATAGACCC	240
AGGTAGAAGT	GGGCTGCCA	TGGGGGCTT	AGCACAAACAG	AAATTATTC	TTTTACTGTT	300
CTGGAGGCCA	GACATCTAAA	ATAAAGGTGT	TGATGGGTC	ATTCTTCCTC	TTGAGGGCTC	360
GAG						363

(2) INFORMATION FOR SEQ ID NO:1139:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 367 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1139:

GAATTGGCC	TTCATGGCCT	ACTTGTAGAA	TATTGAGAA	TTTGTGTGAA	GTGGGGAAAGA	60
TGAAAGAAGT	CAGAATTGAA	AACCGAAGAA	TGAAGAAAAG	AAATAAAAAT	GAAGTTAAGA	120
TAAGAAGTAA	TCTGGAATCA	GAAAGCACTA	CGCTAAGAAT	CCCGTTCTGC	TTCCAGAAGT	180
GGAAAGTGTCTC	ACGGATCGGG	AAATCTGCA	AGGCATACCC	CTGCAAGGTC	TCGCTCCAAG	240
GAAGATTCCA	GGCGTTCCAG	ATCAAAGTCC	AGGTCCCGAT	CTGAATCTAG	GTCTAGATCC	300
AGAAGAACGCT	CCCGAAGGCA	TTATACCCGG	TCACGGTCTC	GCTCCCGCTC	CCAAGGACGA	360
TCTCGAG						367

(2) INFORMATION FOR SEQ ID NO:1140:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 389 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1140:

GAATTGGCC	TTCATGGCCT	ACACCCCTCAC	CACCCAAGGG	GTCATCATCT	CTGGCCACCA	60
CTCCACCAGA	TGGGCAGAGC	AGCTATGACC	GCCACCCAGC	CCTCCCGCTC	AGGCCACAGC	120
CGGAGCCTCC	GCATTGCCCC	CACCCCCATT	TTCCAGGGGG	GTTGTAATT	ATAAGCTGAC	180
GAAGGTAGCC	AGACTTCCGG	AGGACTGACC	ATCTCTCACT	GTCCTCCCCA	CCTTCTTCCT	240
CACTCACACA	TTTTTTGTAC	ATCTGGGCC	TTAGTTTTA	TTCTGTTAT	TATATGTCTC	300
TGTCTCTCTC	TATTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGG	360
TGCAGGAGTG	CCACCCCCAG	GGCCTCGAG				389

(2) INFORMATION FOR SEQ ID NO:1141:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 311 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1141:

GAATTCCGGCC	TTCATGGCCT	AGCAGCACTA	ATCTTGATGG	GACAGAAAAT	TTCAAATGAA	60
GAGCTTTCCC	TCTTTTTTC	TTCCTTGGGG	GCATGCCAGC	TTGTGCTTCT	ATGTCAGTAG	120
CCTTGATGTT	GCCATTCCCTG	CCCCAGACAC	TTGCATGCAG	TTTGGTTTGT	CCTCCACCAC	180
TTTGATCATG	TTGCCCATGG	TCTAGACACC	TCCGTGCTCT	TGTTATCATG	GCATATAGTC	240
TGTATGCCCTC	TGCTGGATTT	ATAAGCGGCC	CCATAATAGC	CTTCCTTCT	GGTTACCCCC	300
TTGATCTCGA	G					311

(2) INFORMATION FOR SEQ ID NO:1142:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 530 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1142:

GAATTCCGGCC	TTCATGGCCT	AAAAGATCG	ATTTTGTAT	TTAACAGACA	TATTTTACAT	60
TCAAAAATGT	AAAGTCAGGG	TGTGCTTAA	AATCCATGG	TGTTTTAAC	ATGCTTAAAC	120
ATGTGACTGC	TGTTGCCAG	GATACAGTTG	TGGTGGTGT	GTCAGTATCT	GAGCACATGT	180
GAACATTNGCC	ATGACTATTTC	ATATTGTCTT	CTCTTAAACT	GAATTATGTC	CATGGTTGCC	240
AAACATGTACT	GTCCCATAGTT	GCCACCATGT	ATTTAGGTG	TCATTTAAAA	TGTCCTCAAA	300
AAGATTTCAAC	CATGATTCTC	CATCAAAATA	GAAAGCTATT	TTGTATGAAG	AAGAACTCAG	360
ACCAGAAAAG	TCTGATAAAA	ATAATCTCTT	AAATAAGTCT	ACATTAGGTC	TTTCATTG	420
TATAAAAATGT	AAATTGGAA	TTATAAGAAA	ACAATTGTT	ATACTGTAA	TGGTAGCATT	480
TTTTCTTAGT	AGTGTACAAA	ATAATGTGTA	CCTTACATTC	AAATCTCGAG		530

(2) INFORMATION FOR SEQ ID NO:1143:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 615 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1143:

GAATTCCGGCC	NNCATGGCCN	ACCTATGTNA	NGNATTCNN	CTCCATTNC	CCNAGGGTTC	60
TTCCCTGTC	TTAGAAATGT	TTTGTGATTT	TGCTTCAGAC	ACAGTTGTC	TACTTCTNGT	120
AAGCATTGTT	CTTAGATNGC	TGGCTTTATA	TCTATCACTC	CCTTGCTCAT	CTGCCCATCC	180
ATCTATCCAT	CCATCCATCC	ATCCATCCAT	CATCCCTCCA	TCCACTTGCT	CATCTGCCCA	240
TCCATCCATC	CATCTATCCA	TTCATCCAGT	CCATTCCACCA	CCCACCATCT	ATTATCCATC	300
CATCCATCCA	TCCATCCATC	CATTCCATCA	CTCACCCATT	CATCCATCAT	CCATCCACTC	360
ANCCATCCAT	TCATTCACTC	ACCCCTCATC	CATTCACTCA	CCCATCCCTTC	CATCCACTCA	420
TCCAATCACC	CATCCATCCA	TACCCACT	CATCCATTCA	CCATCCATAC	ATCCACTCAT	480
CCATTCCATC	ATCCATCCAC	CCACCCAGAC	GTCCGTCCAT	CNATCCATCC	ATCCATNCAT	540
CCTTCTATNN	NNCTGCCAA	CAATCCANAC	ACNTGTCCNT	CNATCCCTTC	CAACCACTCA	600
CCCAGCACAC	TCGAG					615

(2) INFORMATION FOR SEQ ID NO:1144:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 57 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1144:

GAATTGGGCC AAAGAGGCCT AACCGGGCC GCTACTTCGG CCTCTTGGC CCTCGAG

57

(2) INFORMATION FOR SEQ ID NO:1145:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 227 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1145:

GAATTGGGCC TTCATGGCCT AGGTTTCTT TTATTTAAA GATCATTAC AAAATACCAT
 ATCCATAGAT TTACTTCTG TCATATAGCT GAATGTGTTA AGTGTGGA ATTCCATTCT
 TACATTTAAA GGTCAACTGG ATTGCCAGC AGTTTAGATG CATGTGTTT GTTCTTTATC
 TTATCCACAT TGAAGATGTA ACTATTGAAT TCTAGACCTG CCTCGAG

60
120
180
227

(2) INFORMATION FOR SEQ ID NO:1146:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 447 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1146:

CTCGAGTATC TCCTCCTTTC TGATATCCAG TTTAGGTGGT CCAATTTCATCTGGCA
 TACAGCAAAT TCTTCGACT TTGCGATAGGC AGATTCTTT TGTCACACCC TGGCTTAAC
 TCTGACCCAA AGAGAATTG ATGGATCACC AACATGATCA GAAATATTAC AATAATGATG
 AGAAATATTG ATGCAGGCAT CAATCCATTCA TGAATTCTTA ACACCATAGT TCTTACCTC
 TACGGTAAAA ACAGGGACCT GTGGCATGAT CTGGTACTCC CAATATACGA TAGGGTTCAT
 GTTATAGGAT TCAATTGTA CATTAGTTGG TGTAGGCACT GAGGACGGCC CCAGATCCGC
 GGTGCCATC TCAGCCCTGC TCACACCCCTG CATGACAAGG GGTAGGAGAA AGAGGAGAGC
 CATGCTGCTA CCGACGGTCG CTGGCTC

60
120
180
240
300
360
420
447

(2) INFORMATION FOR SEQ ID NO:1147:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 271 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1147:

GGCGGCCATG TTTGCCATCT CAGGTCCAGG TTTCTCCCGG ACTTCGAAGA GCTCATTATC	60
GGGTCTGATT TTCAGCTCCT TCTGCAGAGT CTTCCGGAGC TCCAGCATCC GCTGCTGCAT	120
CTGCTTATG GTCTTATTT TCTCCAGAAG TTGCTGCTCC AAGTCCTGTT TCTCCTTCTG	180
TAGCTGTGTG AGATCCATGG CCCCAACCTC ACCATTTGGT GTTCTTCCTG CAGTTGGAAG	240
CTGGAACACA GGGTCTGCA TGGCCCTCGA G	271

(2) INFORMATION FOR SEQ ID NO:1148:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 298 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1148:

GGATTGGGGA GGGAGTGTGC GAATAGGTGT GGGTGACAGA CATCAAGTAC TTAACAGGGT	60
AATAGAATAT CACAAGGCAA GTGGAGGCAG GGCAGATCA CAGGACCACA GGACCAAGGC	120
AAAATTAATAA TTGCTAATGA AGTTTTGGGC ACCATTGTCA TTGATAACAT CTTATCAGGA	180
GACAGGGTTT GAGAGCAACC GGCTGACCA AAATTTATTA GGCGGGAAATT TCCTCCTCCT	240
AATAAGCCTG GGAGCGCTAT GGGAGACTGG AGTTTATTTC ATCTCTGCCT GCCTCGAG	298

(2) INFORMATION FOR SEQ ID NO:1149:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 332 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1149:

GAATTCGGCC TTCATGGCCT ACggcatttc AGCGTCAAGT GCACITAGCG GGGTACCCGG	60
CTCCCCCAGC CCCCACACCC GTCCCTGGTC TCAGGGTGGT TCCAGCTTCT CTTGGGCAG	120
CCAGAAGTTG GAGTCCCATC CCCCANNGNA NTTTTTTTTT TTTTTTTTT TGTGATCAGG	180
GAGTGTGTCC AACGTAGCCC CCTGGCCTGT GCAAGCCCTG ACTCCCTCAT GGTGCCTCGG	240
AGAGTGGGGA GCATATTGGG CTGGGGTAAG CACTAGACCC AAGTAGACTG GACACAAAGG	300
GCTCGCCCAAG GGCCTGGCG CCACCCCTCG AG	332

(2) INFORMATION FOR SEQ ID NO:1150:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1150:

GCGAGGCAGG GAAACTCACT TCACGTCTCT TTCCCTGTAG AGCATCATGC TTATTTCTGG	60
CTCACTCACA TCTTTGTCTC CGGAGTTCTC TGCCGAGCCA TTGCCCCCTA CAGCAGAGAG	120
CACAGCTGGC TGCACTAGTG CTGAAACCACC CACCCCCAGA CCACGGCATT TCCACGGCCT	180

CTTGTCCAG AGCGGCAGGC GTTGTGTGCA GAGAACGCC CTCCCACGCA GCACAGAGAA	240
CGCGGGGTGG GTGTGTGGCT CCGGGCCTGT GGGGCTTAGG CTGCCTGAAC CACCGCCGAC	300
TGGCACCATG ACTCGGCATT CCTGGAAGTG CCTTACCAAG TTGTTGTTGT TGTTTTGTTG	360
TTTTTTAAGA GACGGGCTTG CTCTATCATC CAGGCTCGAG	400

(2) INFORMATION FOR SEQ ID NO:1151:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 329 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1151:

GAATTCTGGCC TTCATGGCCT ACCCAGACAA ATACCAAGTT TATTTCACAA ACACTAGGAA	60
GATGGGTTGA GGGTGGAGGT GGGGGACACA GGTGCGCAGC TGCACAGAGT CAGCAGCAGC	120
AGCCTGCTCC CCGCACTGAG GACTCGGCCT GGANTGCAGT GCCTCCAAAT CAACACGCAG	180
CAAGAGGGGA GTGCAGGGAG GGCCCTGAAC ACCAAGCCTC TGAAAGGCTA AGGGACACAG	240
CTCCAGCTGT CCCAGAAAA CCAGCAATAA ATAAAAGTGA GGCACGGCCC CACCCACACA	300
TATCATCTAG TCACCCATCT TCACTCTGG	329

(2) INFORMATION FOR SEQ ID NO:1152:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 313 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1152:

GAATTCTGGCC TTCATGGCCT ACCCATAGCC ATGAGCATGA CTGGCTGCCA GCTCTTAGTC	60
ACCAAATGCC ATTCTCCGCT GAAAGAAGCA AGGGCTTTTC AGAGAATAGA CTGAGCACAA	120
AAATGACAAT CGTAATGGAG TAGAACACCT TGACTTTAA AAGTCCACGA GTCCACAGTG	180
ATGCCTAAGG GAAGTAGGGG GGAAAGCTCT TCTTTACAC ATCTTCCAGC TAACAGATGG	240
AAAAGGAATG ACAAAATGAA AAATCACCAC ATTGCAACTC TCAATAAAGT AACTGATTCA	300
GGCATATCTC GAG	313

(2) INFORMATION FOR SEQ ID NO:1153:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 324 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1153:

GGGCTCTCG CCAAGGAACT CGTGGCAGAA GAGGGCAGCA GTTGGCAGTA GCTGCCGATG	60
TCTGTCCCCA GCTCCACCAT TCCCTCCCTGT GGCTGTGCCG TGCTCGTGGT TTCAGTGTCC	120
GTGTGTCCAT GTGTCTGCCG TTCAAGGAGCT CGCAGCTGGT GTGCTTGGCG GTCCCAAGGCC	180
TGTGTAGTGT CTCTCCCCCTG CTGCGGGCGC CCCCCACCCCC ATTCCCTCTCC CCAGAACCGG	240

TGGGATGGGC CCCCATGAAC TCCAGCAGCA TGCTGAGGTG TCCATGTTGT CTGCCTTGT	300
ATAAAGAAC AGCCTACT CGAG	324

(2) INFORMATION FOR SEQ ID NO:1154:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1154:

GCGAGTCAG CGGAGAAAAG AAAAAGCAAC GTTTAATTCT AGAAGGCCTC CTGTCCTG	60
CTGCTCTGGG TGCTCATGGA ATCAGCTGCT GCCCTGCCTC TCTCCGGCC AGCCTCCCTC	120
CTCCCTCTCC TCCTCAGCCT GTGTGCACTG GTCTCAGCCC AGTTTATTTGT CGTGGGGCCC	180
ACTGATCCA TCTTGGCCAC GTTGGAGAA AACACTACGT TACGCTGCCA TCTGTCACCT	240
GAGAAAAATG CTGAGGACAT GGAGGTGCGG TTGTTCCGGT CTCAGTTCTC CCCCCGAGTG	300
TTTGTGTATA AAGGTGGCGC ACTCGAG	327

(2) INFORMATION FOR SEQ ID NO:1155:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 504 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1155:

GAATTCGGCC TTCATGGCCT ACCAGCCCTT TGCCTCCAGT AGTCCCACCT TTCTGGACTG	60
AACTGATATT CACCTTACAC AAATGGATTG ATGTCATG TCTCCCTAAA ATGTACAAAA	120
CCAAGCTGTG CCCACCACCC TTGGGCACAT GTCTCAGAC CTTCTGAGGC TGTCACGG	180
GTGCACTGCC TCAACCTTGG CAAAATAAAC TTCTAAGTT ATCTGAGACC TGTCAGAT	240
TTTTGGGTTT CACACCCAT ATGTCATGAACT CTGCTCTTT CCTATCTCTG GCTCCATCCC	300
ACATTGTAAG GGGCTTGCA CACACAAATG TGGACATTCC AGCCTGCACA CCTAAGCATC	360
GCCTCCATC CCACCTTCC AGCGGATGGG TGTGAAACT GGCAGTGTG TTCATTTCA	420
AGATGATGTA TACAGGAAAG TGGTCAGGC AGATCTGTG AGCAGGTTG GGCCCACTTG	480
GGAAGAGTAA CCCAGGATCT CGAG	504

(2) INFORMATION FOR SEQ ID NO:1156:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 686 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1156:

GNNNNNNNNN NNNNNNNNNN TTCCCCCTTN TNNCATGTTT TGTTCCCTTN TCCTTGTGTTN	60
TTTTTTCCGC AAAATATTC AAGNTATACC CAGGCAACAT NAANTCCAGT TCGGATTTA	120
ATTAGTCAG TATGCAGCGT CTTTCATTT TTATTACTCA AAAAAGTTTCA ATTTTTTAT	180

TTAGCTTTCT GACTCTGTGC TTGTGCCCTTC AACACTTTCA CAACGATTTC	CTGCTCCCTCG	240
ATAAGGAAAG CACCGCTTGAT CCTGTCACGA ACACATTTAG CACACATGGA	ACCACCATAG	300
GCCCTGCTGA CATGTTTCTT TGTTTGGAC AATCTCATAA GAACTTTAGG TCTTACAGCA	360	
CGAACCCCTC GAACTCTGCC TGGCACACA CCACATGCAG ATTGTTGGTC	TTTCCCAACC	420
TTCTTGGTAT AAAGGTAAAC AATTCTATTA CCAGGGGTTG	GGGACACGCT AGTTTTGTTA	480
GAGGCTGTAT TGTAGGAAAG CCTACGTCGG TATGTCAAAC GCTGGACCAT	TCTGAGTGCC	540
TGCAGACAAAC CAAGGGTGCAC TATAATGACA GCCGTGCAACT	TGTGGACTGT GGACTAAGTC	600
TGAATGATAC TGCTTTGAG AAAATGATCA TTTCAGAATT AGTCACAAAC	AACTTACGGG	660
GCAGCAGCAA GACTCACAAAC CTCGAG		686

(2) INFORMATION FOR SEQ ID NO:1157:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 274 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1157:

GCAATTTGCT TTTTTAAAAAA TACATTTCA TACACTAAGT TTTCTGTTAG CCTAAGTAAT	60
TATATTTCTA ATTAACATTCA AAGTAATTGA TAGGTGGCAA AGGATATCAA TCAAACCCAG	120
TCCAAGTAAA AAATGTACAC TAATTTAATA ACAATATTAT TCTATATTAC TTTTTTTTTT	180
TTTTTTTGAC ACAGGAGTTT CACTCTTCTT GCCCAGGCTG GAGTGCAGTG GCACGTCTCG	240
GCTCACTGCA ACCTCCACGC CCCCCAGACT CGAG	274

(2) INFORMATION FOR SEQ ID NO:1158:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 196 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1158:

GAAGATGGAC AACCGGGATG TTGCGAGGAAA GGCTAACCGG TGGTTTGGGG TTGCTCCCCC	60
TAAATCTGGA AAAATGAACA TGAACATCCT TCACCCAGGAA GAGCTCATCG CTCAGAAGAA	120
ACGGGAAATT GAAGCCAAAA TGGAACAGAA AGCCAAGCAG AATCAGGTGG CCAGCCCTCA	180
GTCCCCACAT CTCGAG	196

(2) INFORMATION FOR SEQ ID NO:1159:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 141 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1159:

GAATTCCGGCC TTCATGGCCT AGAGGTGAAA TACAGAAAGC CTTTTTTCT TGATCTTTTC	60
CCGAGATTCA AATCTCCAAT TCCCATTGG GGGCAAGTTT TTTTCTTCAC CTTCAATATG	120

AGAATTCA GC GAACCC TCGA G

141

(2) INFORMATION FOR SEQ ID NO:1160:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1160:

GAATTCGGCC TTCATGGCCT AGTAATATAT ATAATTATA ACTAAATATA AATTAGGGAG	60
GTGTACTCAA CATTTCATA GAATACATAG TCAAAAATGG TTTGCAACCT CTGCCTAACAA	120
AAAATAAAAC ACCCTACATC TTTGGTCAA GATTGTCACC CCCAACAGTT GTGTGAAATG	180
TGGGGCAGGA ATTATCACTA TTTCTTGTG GAAATTAAGG TTCCAAAGAT AATGAGACCA	240
GAGCCAAGG TCAGAGTCCA CTGCTTCTC TCTGAGGCCT CAATGTGAAG ACCTGAAC	300
TGGCAGCAGA TAATTCTGGA GACCTGTTAA TCAGCTGTAT GCACCAACAC TCGAG	355

(2) INFORMATION FOR SEQ ID NO:1161:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1161:

GTATTCATC ATATAATTTT CTTCGAATTG GGAATTAGG CAGTATGTTA TGGGATTTTT	60
TTTTTAATTTT ATTTTTTTTT TTTTTAGGAA GCTTGTCTTCT CTTTTGCAATT TATAGAGAGC	120
ATGTTTATAT TAAAGAGTAC CTTCCATACT ATAGAACACA TTTGTGGGTG GATTCCGTCC	180
TTTTCTTCTC ACCCTCCCTG ATTGCTGCTA ACAATCCAGA AAGACAGAAA TTTTGTGTTTC	240
ATTCAAGGCAC ACTCGAG	257

(2) INFORMATION FOR SEQ ID NO:1162:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 220 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1162:

GAATTCGGCC TTCATGGCCT ACTGTTTCCT TGCCCTTTTC ACCGTCTGGT GGTTCCCTGC	60
AGCCCTTGCG TTGTGGCCCT CTCATCCATC TTCCGAGCCT AGCACTCCAG TCTCTGCTTC	120
TGTCTCATCAC ACGCCCTCTC TTGAGAAAGA TCCCAGGCTG GTATTTAAAT TGCCCTGTTGG	180
CAGGAACCTT GCCTGTCTTC CCCTACCCCC ACAGCTCGAG	220

(2) INFORMATION FOR SEQ ID NO:1163:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 405 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(iii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1163:

GAATTCCGCC	TTCATGGCCT	AATCACTTGA	GGTCAGGAGT	TCATGACCA	CCTGGCCAAC	60
ATGTTGAAAC	CCCATCTCA	CTAAAAATAC	AAAATTAGC	TGGGCATGGT	GGGGGGCACC	120
TGTAGTCCC	GCTGCTAGGG	AGGCTGAGAC	AGGAGAAC	CTTGAACCTG	AAAGGTGGAG	180
GTTGCAGTGA	GCGGAGATCC	TGCCACTGCA	GTCCAGCTG	GGTGACAGGG	CAAGACTCCG	240
TCTCCAAAAA	AAAATTAAAA	ATAGAAATAC	ATTTTAAAC	CCAGATACTT	GTAGCATATA	300
TAAGGGACAA	TTGCACTT	GAAGGTACTT	CCACATGTAT	TATATAATT	TATTTTTAA	360
AATGAATCTC	ATTTGGTTGT	CATGAAATT	GGCAAGCTTC	TCGAG		405

(2) INFORMATION FOR SEQ ID NO:1164:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259-base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1164:

GAATTCCGCC	TTCATGGCCT	AGCAGAACCG	AGAGGAGGAG	GAGAAGAAAG	CGGAGTTCGA	60
GCGGCAGCGA	AAAATTGAC	AGCAAGAAAT	AGAAGAAAAA	CTCATCGAGG	AAGAACACGC	120
ACGAAGAGTA	GAAGAATTGG	TAGCAAAAG	GGTGGAGGAA	GAACGGAGA	AAAGGAAGGA	180
TGAAATTGAA	CGAGAAGTTC	TCCGAAGGGT	GGAGGAAGCC	AAACGCATCA	TGGAAAAGCA	240
GTTGCTCGAA	GAACCTCGAG					259

(2) INFORMATION FOR SEQ ID NO:1165:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 114 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1165:

GAATTCCGCC	TTCATGGCCT	AAATTCAGC	AATACAGCTC	TCACATACAT	AAATTATAAA	60
ATAATTTAT	TTAAGGTGAT	GAAATTATA	AGCAGGTTCA	AAAATATAAT	AAAA	114

(2) INFORMATION FOR SEQ ID NO:1166:

(i) SEQUÉNCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1166:

GAATTCGGCC	TTCATGGCCT	AGTCAGCAAC	ACCCAACACT	GTCTGTTTC	CATTGTTGG	60
TTTTAATCAT	AAAATTGTCA	AGTGATTCTG	GTTTGTACTT	TATTTTTTGTG	TGCCTCTGA	120
AAGGATCTAA	AACAAAAATA	TTTGCCTTT	TTTCCCCAC	GTGTATCTGA	ACATTAAGCA	180
GATGGGCTCA	GACACAATGA	AAAGGATAAT	CCAATGTACG	TGCTGGTGC	CTCTGCTAGT	240
TGTTATCTCT	GTAGGGCTCA	GGAAAGCTGG	AGGAGGAAGG	GAGGGTAAGT	GGCCTGGTGA	300
GTGGAGGTGG	CTCGAG					316

(2) INFORMATION FOR SEQ ID NO:1167:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1167:

GAATTCCGGCC	TTCATGGCCT	AGGTACCAAT	AATTCTTCA	CTTCTTCAAC	TGCTCTCTTC	60
AATTGATTT	CTGCTCTGTT	CTGAGCATCT	TCCACAGTGA	TTAGTACATG	AAATCTTCA	120
TTTAGATGCT	CCCAATTGGG	CTTGCTCTA	TTTGCTCT	CCTTTTTTTT	ATCCCTCATT	180
GAGCCTTGC	CTCGGACCAT	GATTTACAT	CCGGTTTCTG	CTTCAAGTTG	TTGGCTGTA	240
AGTCTCTCTAG	GTCCAAGGAT	TCTCCCAACA	AAATTAAACT	TCGTCAGCA	GCCGCTCGAG	300

(2) INFORMATION FOR SEQ ID NO:1168:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1168:

GAATTCGGCC	TTCATGGCCT	ACCTTCACAG	AAAAATGCAT	AGCTGGATGC	TGCAGACTCT	60
AGCGTTGCT	GTAACATCTC	TCGTCCTTTC	GTGTGCAGAA	ACCATCGATT	ATTATGGGGA	120
AATCTGTGAC	AATGCGATGTC	CTTGTGAGGA	AAAGGACGGC	ATTTAACCTG	TGAGCTGTGA	180
AAACCGGGGG	ATCATCAGTC	TCTCTGAAAT	TAGCCCCCCC	GATCTCGAG		229

(2) INFORMATION FOR SEQ ID NO:1169:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1169:

GAATTCGGCC TTCATGGCCT AGTGTCTGGGA GCGCAGCCGG CGGGCGAGGC TGCCTGAAAC 60
 GTGGAGCTGC TGGAGCTGTC CGGCTGACCT GGAAAGTTCT TTGGCCTCTA GGCTTTACCT 120

GGAGGCCTCT	TCCTTCAGCT	CCTTGTCCCC	CCGCACCTCC	TGGCGTGCT	TGTCCTTCTC	180
TTGCAGCCGT	TCCAACATGG	CGCGGAGGTG	GGCCTCCCTG	TTCTCCTTGT	TGGATTCCAT	240
CTTCTGGGCC	AGTTTTCT	TAGCCATTT	GATGAAGTTG	TTGTTTCTT	CAATGGCCTT	300
TTGGATCAC	TCTCTCAT	GTTCGGAA	TTCTAGACCT	GCCTCGAG		348

(2) INFORMATION FOR SEQ ID NO:1170:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 81 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1170:

GGCTTTTCC	AAATTGCTCT	GGCTACCATA	TAGAAAATTG	ACTGAAGGAG	GGCCAAGATG	60
GAAACAGAGA	GGACGCTCGA	G				81

(2) INFORMATION FOR SEQ ID NO:1171:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 418 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1171:

GAATTCTGAG	GGACTTAAC	CGACCATGAG	ATTGGCAGTG	ATTTGCTTT	GCCTATTG	60
CATTGCTCC	TCCCCTCCCG	TGAAAGTGAC	TGATTCTGGC	AGCTCAGAGG	AGAAGAAAGCT	120
TTACAGCCTG	CACCCAGATC	CTATAGCCAC	ATGGCTGGTG	CCTGACCCAT	CTCAGAAAGCA	180
GAATCTCCTT	GCGCCACAGA	ATGCTGTGTC	CTCTGAAGAA	AAGGATGACT	TTAACGCAAGA	240
AACTCTTCCA	AGCAATTCCA	ATGAAAGCCA	TGACCACATG	GACGACGATG	ATGACCGATGA	300
TGATGACGAT	GGAGACCATG	CAGAGAACGA	GGATTCTGTG	GACTCGGATG	AATCTGACGA	360
ATCTCACCAT	TCCGATGAGT	CTGATGAGAC	CTTCAGTGT	AGTACACAAG	CAGTCGAG	418

(2) INFORMATION FOR SEQ ID NO:1172:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 431 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1172:

GAAAACAGCA	CTGCATGTCT	TTGGCAAGCC	ACAAGTTCA	TAGATACAGC	TGTGCTCACT	60
GCAGAAAGCC	TTTCATAAG	ATAGAAACAT	TGTACCGACA	TTGCCAAGAT	GAGCATGACA	120
ATGAGATAAA	GATTAATAC	TTCGTGGGC	TTTGTGATCT	TATCTTTAAT	GTGAAAGAAG	180
CATTTTGAG	TCATTATGAG	GAGCACCACA	GCATAGATTA	TGTATTGTG	TCAGAAAAAA	240
CTGAAACTTC	AATTAACACC	GAAGATGATT	TTCCAGTAAT	AGAGACCAGT	AACCAGTTAA	300
CTTGTGGTTG	CCGTGAGAGT	TACATCTGTA	AAGTCAACAG	AAAAGAAGAT	TATAGCAGAT	360
GTCTCAAAT	CATGCTGGAT	AAAGGAAAAC	TGTGGTTCG	CTGCAGTTA	TGTTGGCAA	420

CAGCACTCGA G

431

(2) INFORMATION FOR SEQ ID NO:1173:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 319 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1173:

GAATTCCGCC	TTCATGGCCT	ACCCCTAAA	GGAAAGAATG	GCTGCTCTAG	AAGAAAAGAA	60
TGTTTAATT	CAAGAACAG	AAACTTTCAG	AAAGAACATCTT	GAAGAACATCTT	TACATGATAA	120
GGAAAGATTA	GCAGAAAGAAA	TTGAAAAGCT	GAGATCTGAA	CTTGACCAAT	TGAAAATGAG	180
AACTGGCTCT	TTAAT.GAAC	CCACAATACC	AAAAGACTCAT	CTAGACAGCT	CAGGTGAGTT	240
GCGGTACTCA	GTGGGATCCC	TAGTGGACAG	CCAGTCTGAT	TACAGAACAA	CTAAAGTAAT	300
AAGAAAACCA	AAACTCGAG					319

(2) INFORMATION FOR SEQ ID NO:1174:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 171 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1174:

GAATTCCGCC	TTCATGGCCT	ACTTAATATA	TTTGTGAGAT	AATTATTGAG	ACATTTCATT	60
AATATTTTAT	TTAGCTTAG	AATTTCAGAG	AAAAGTCAC	CTAGAGAGGT	ACTTCTCCTG	120
GTTCAAAC TG	TGAACATGAA	AATTCTGAAT	TTAAGTAACT	GGATCCTCGA G		171

(2) INFORMATION FOR SEQ ID NO:1175:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 366 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1175:

GAATTCCGCC	TTCATGGCCT	AACGAAACAA	AAAGCTAAGG	GCAAAATGTA	CAAACCTAGA	60
AGAATTGGAA	GATAGAAACA	AGATAGAAAA	TGAAAATATT	GTCAAGAGTT	TCAGATAGAA	120
AATGAAAAAC	AAGCTAAGAC	AACTATTGGA	GAAGTATAGA	AGATAGAAAA	ATATAAAGCC	180
AAAAATTGGA	AAAAATAGCA	CTGAAAAAAT	GAGGAAATT	TTGGTAACCA	ATTTATTTTA	240
AAAGCCCATC	AATTAAATT	CTGGTGGTGC	AGAAGTTAGA	AGGTAAAGCT	TGAGAAGATG	300
AGGGTGT TTA	CGTAGACCAG	AACCAATT	GAAGAACACT	TGAAGCTAGA	AGGGAAAGGA	360
CTCGAG						366

(2) INFORMATION FOR SEQ ID NO:1176:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 222 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1176:

GAATTCCGGCC TTCAGGCCTA CAAGAATTTC ATGCCATCCA AGAGTATTAG CACAAATAAA	60
TAAAGGCAAT TTGTAAATTT TTTCCCTGAA AATCTAAAAA ACAAGAAAAC TATCTCTTCA	120
GGGTGATTAT AATTAGGTCT ATGAGACTCT CAAGGTCCCT TTAGTGATTG AGAATCTATA	180
GTTGGAATA CTTATTTAA ATGTTCAAGG CAGTTGCTCG AG	222

(2) INFORMATION FOR SEQ ID NO:1177:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 367 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1177:

GAATTGTCCA CAGCCTGTCA TGCCGCACAA CTGTCCACGC TCGGTTCTCT CGGATATCAC	60
AGTACACTAC AAATGGCTTC AGGGGGCCAC TGCCCATCAGG ATCAATGGTG AAGTTTCCAG	120
AAGTTTTCCC ACTGAGCCGA TAAGCCTCAC AGGATTCCCTT ATACAAAGGT GTGTGGCAGG	180
TCTCTCCCTT GTAGCCCGTC AGTCGCAGT AGCAAATGAA GTCATCCCA GACTGGTACC	240
AGCGTCCATC ATGCTCACAC ATGTTAGGGC TGCACCTATC AGTGATGCCA CATGTATCAA	300
AGAGGACCTC AGCATAGAAC CCAAGCCGCC GGCCCTCCAC CAGAGTCAGG TTGACCCAGTT	360
GACCGAG	367

(2) INFORMATION FOR SEQ ID NO:1178:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 367 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1178:

GAATTTAGAA CGGGTACAAA AGGACCTAAG CCAAACACAG TGTCAAATGA AGGAAATGGA	60
ACAAAAGTAT CAAAATGAAC AAGTTAAAGT GAATAAAATAC ATTGGAAAGC AGGAGTCTGT	120
AGAGGAGAGA TTGCTCAAC TACAAAGTGA GAATATGTTG CTTCGACAAC AACTGGATGA	180
TGCCCAACAA CAGGCTGACA ATAAAGAGAA GACAGTGATT AATATCCAAG ACCAGTTCA	240
TGCTATTGTG CAAAACATTC AAGCTGAGAG TGAAAAGCAA AGTCTTCGTC TAGAAGAAAG	300
AAATAAGGAG TTAATCAGTG AATGTAATCA CTTAAAAGAA AGACAGTATC AATATGAAAA	360
TCTCGAG	367

(2) INFORMATION FOR SEQ ID NO:1179:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 247 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1179:

GAAACCGAAA GTGGAAATGT ACTCTGGGAG TGATGATGAT GATGATTAA ACAAACTTCC	60
TAAAAAAAGCT AAAGGGAAAG CTCAAAAATC AAATAAGAAG TGGGATGGT CAGAGGAGGA	120
TGAGGATAAC AGTAAAAAAA TTAAAGAGCG TTCAAGAATA AATTCTCTG GTGAAAGTGG	180
TGATGAATCA GATGAATTTT TCCAATCTAG AAAAGGACAG AAAAAAAATC AGAAAAACAA	240
GCTCGAG	247

(2) INFORMATION FOR SEQ ID NO:1180:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 149 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1180:

GAATTCCGCC TTCATGGCCT ACCGAGTTCTT CATGCTTGT GTTGAGATT GAGATTTTA	60
TTGGTAACAT TGTCTTTTT CCATCCTTTT TTTTCTTCC TAACCTGGT TCTTCAGTG	120
CAACTGCAGA TAGAAGACCT GACCTCGAG	149

(2) INFORMATION FOR SEQ ID NO:1181:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 251 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1181:

GAATTCCGCC TTCATGGCCT AGAAAATTAA ACTGTTTTT AAACCAAGGTG TTCACCTTTC	60
ATTGATTTT GCATAGTACT TGGTGAACCC TATTGATTTT TAGATTCAAGG TAATTTTCA	120
GTGTGAAAGA GTTTTCTGT TATATCTCA CTGTGATATC CATTCCATTC CCTTCTCAGT	180
TAATACTCAG TTTAGCTCTA GTATCTGTCT CTCAAATTAT GTTTAATTGC TTTTATCACT	240
TTGTCCTCGA G	251

(2) INFORMATION FOR SEQ ID NO:1182:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 176 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1182:

GAATTCTAGA CCTGCCTAGA GTGCTCTGTG TATGCGGATG ATTTAGAATT GTCATTCTC	60
TTTACTGGAT GTTTATTTAAAGATCTGG CCTGTCCTG CGTCTGCCGA CGGGCCCTTG	120
TCTCCCAGCT ATCTATAACC TTAGCTAGAG TGTCGCCTTG TGGGTTCCCT CTCGAG	176

(2) INFORMATION FOR SEQ ID NO:1183:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 410 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1183:

GAATTTAGAA TTCTTGACGG GTTCTCGGGG GTTCCTGTTG TATAAAGGCC TTCATTACTT	60
TAGTTATACC CAAGTGAAAG GGGCATTAC CTCGTGACAA GTGGATTATA GGAGAAAAAG	120
-AGGAGATGGT AGGTCAAGGT GTGCTTAGAA GTCATGCCA GTGTTCTCAT CAATGCCAGA	180
CATTACGGGC TGCCCTTCCA TCAGCCATTAC TACCTTTCTT CCTGCTAACAA ATATCCCAAT	240
TTTGTTCAGG TATCAGGCC CTTAATATGT TTCAGGGAAA ACTGGTTCCA GCCCAGAGCA	300
GTGTGGACCT TGATTACATC AAACATTAATCA TGTTGAGTCC ATTTCCTTG CCAGAAATTG	360
GTTCAGGAGT GGACATGTAT TTCACTTGTG AGTACACAAG ACGACTCGAG	410

(2) INFORMATION FOR SEQ ID NO:1184:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1184:

GGAAACAGAC AGTACCAAGG AAGAAGCAGC TAAGATGGAA AAGGAATATG GAAGCTTGAA	60
GGATTCCACA AAAGATGATA ACTCCAACCC AGGAGGAAG ACAGATGAAC CCAAAGGAAA	120
AACAGAAGCC TATTGGAAG CCATCAGAAA AAATATTGAA TGGTTGAAGA AACATGACAA	180
AAAGGAAAT AAAGAAGATT ATGACCTTTC AAAGATGAGA GACTTCATCA ATAAACAAGC	240
TGATGCTTAT GTGGAGAAG GCATCCTTGA CAAGGAAGGG CTCGAG	286

(2) INFORMATION FOR SEQ ID NO:1185:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 417 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1185:

GCGATTGAAT TCTAGACCTG CCTCACCTTA CCCCAGGACT CCGCTATGAC ACCGCCTCTG	60
CCCCTACAAG ACACAGATCT CTCGTCAAGCC CCAAAGCCTG TGGCTGCAGC CACGATTGTG	120
TCCCAGCAGG CTGAAGAGGG CCTCACCTTA CCCCAGGACT CCGCTATGAC ACCGCCTCTG	180
CCCCTACAAG ACACAGATCT CTCGTCAAGCC CCAAAGCCTG TGGCTGCAGC CACGCTGTG	240

TCCCAGCAGG CTGAAGAGGG CCTCACCTTA CCCCAGGACT CCGCTATGAC ACCGCCTCTG	300
CCCTTACAAG ACACAGATCT CTCGTCAAGCC CAAAGCCTG TGGCTGCAGC CACGCTTGTG	360
TCCCAGCAGG CTGAAGAGGG CCTCACCTTA CCCCAGGACT CCGCTATGAC ACTCGAG	417

(2) INFORMATION FOR SEQ ID NO:1186:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 260 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1186:

GGAAAGGGGCT TTTACAACCT CCTTTGTTT CCAGGGTTA GSTATCTCGC TTGGTATAAG	60
ATACCACTAT TCCTAGAAA GGCTTGAAA AGAGGGACAG ATACAAGCCT CTTCTGAAAA	120
ATCTATGCTT TTCTTACCTC TACCAAGTAA TAGCAAACAT GAAAATGGTA AAGATCTTAA	180
CAACATTGT CTCTGTACAT ATAAACAGTT TAAACACATG CGCAAAAGATG GAGCAAATA	240
TCATACAAAA TAATCTCGAG	260

(2) INFORMATION FOR SEQ ID NO:1187:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1187:

GAATTCCGCC TTCATGGCCT ACAAGGAAAT GCCCAAGGAA AAACGTGAGC TTCAGTTCG	60
GCGAAAGGTC TTAGCAGTCA CAGACTCACC TGCCAGGAAG GGCAAGGACT CTCCCTCTAA	120
GCAGAGCCCT GGGGAGTCCA CGAAGAAGCA GGATGGCTA GTCCAGATTG CACCAAACCT	180
GACTGTGATC CAGTCATTA AAGTCTTCCC CAGGGTGTG CTGCAGACCC TACGCCACCC	240
CATCTTCCTG CTGGTGGTCC TGTCAGGT ATGCTTGTC TCCATGGCTG CGGGCATGGC	300
CACCTTCCTG CCCAAGTTCC TGGAGCGCCA GCTCGAG	337

(2) INFORMATION FOR SEQ ID NO:1188:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 537 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1188:

GAATTGGCCT TCATGGCCTA CGAGGCGTCA CTGATCTTAA CGAGACTTCC AAATCGTCTC	60
AGCAGGGGCT CCAGACTTCC CCAGCAGGCG GCAGGTTTCC TGTCATGCTT TCGCTTCCCT	120
TCTCATATAC ACCAGTGCTA GAGTTCATCA TGTGTCAAAA TTGTATCTTG CTTCTTGTGTT	180
TCAAGATGAT CTAATAGTTG TCTTATCTCA GCATCATACT CCACCCATTC TGGGACAATT	240
CTGGCAGCAG CTTTAGTTT GGATTCCTTT GTTTGGGAT TATTGCACAG ATCAATTGTT	300
TTGGCCCTCC TTGGACTAAC CACATACAAA TATGAATCTG GCTGCAAGAA CAGGATATCC	360

AGGTAAC TAG AGAGGGCA TTGATAAAAA TATCTGGTGG AGAAGCCTAG GATTCAACT	420
TTTGTCAGA CGATCCGTG TGGACAGCT TTACCAAGAA AGAATAATAG CGGATATGTT	480
CATCCAACT AAGAACCTTC ATGCATCTG CATTGTTACA TAGCCTGTGG ACTCGAG	537

(2) INFORMATION FOR SEQ ID NO:1189:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 65 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1189:

GAATTCCGCC TTCGTGGCCT AATTGAATTC TAGACCTGCC TCGAGGATTC AATTAGGCCA	60
TCGAG	65

(2) INFORMATION FOR SEQ ID NO:1190:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 398 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1190:

GAATTCCGGCT TCATGGCCTA ACTTTATGTC ATAAAATGTA TTTAAATAAT CTTGAAATGG	60
CCATTAAGGA AGATCAGATT GCAGATACT TTCAAGGAAT ATCAGGTCCT AAAGAAGACA	120
GCACAAGTAT AAAAGGTAAT TCAGACCAGG ATTCTTTCT TCATGAGAAT TCGTTACACC	180
AAGAAGAGAG TCAAAAGAGA AATATGCCTT GTGGGAAAC AGCAGAAATT AAACAAAAGC	240
AAAGTGTAA CAAAGGAAAA CAAGGAAAGG AGCAAATCA GGACTCACAG ACAGAGGCAG	300
AAGACGCTACG CAAACTTTGG AAAACCCATA CTATGCAACA AACTAACAG CAAAGGGAAA	360
ATATTCAACA AGTGTACAA AAAGAACGTA AACTCGAG	398

(2) INFORMATION FOR SEQ ID NO:1191:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 231 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1191:

GAATTCCGCC TTCATGGCCT AGCCATTGTT TATACATTAT TGCTGTCAGT ATTCAACCAAG	60
ATGGTGCTAT TACCTGTTGT GGGGCAATTTC CCCTTGTCAT TTCTACATAT CTTGGAACAG	120
CTTTTGCTCT TATATTTCA AGAATGTTCT AAAGCAGACA GCCTTGAGG AGAGACAGAT	180
AGTGACTCCC TCCAGGGAAA AAGTCGGATT TGTGTGCTCC CCTGCCTCGA G	231

(2) INFORMATION FOR SEQ ID NO:1192:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1192:

GAATTCCGGCC	TTCATGGCCT	ACACTAACCG	CAGCATGGCG	GATCTGAAGC	ACAGCAGCTT	60
GCGGTACGAG	CTCCGAGCG	ATCTGGAGGA	AGAAAAGAATG	CGGCAGAAAAA	TAGCAGAAAG	120
GACCTCAGAA	GAAACAATAC	GCATTTACTC	TTTGAGACTG	TTTTTGAACT	GTATTGTTCT	180
GGCTGTTTA	GGGGCATGCT	TTTATGCAAT	ATACGTAGCA	ACTGTCTTCT	CGCAAGAGCA	240
CATAAAAAAAG	GAAATCCTCG	AG				262

(2) INFORMATION FOR SEQ ID NO:1193:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 381 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1193:

GAATTCCGGCC	TTCATGGCCT	AGAGGAAATT	GCTAATGTAA	CAGAGACATC	AGATCCAGAA	60
TTCCAACGAA	CCTGAATGAG	CCCTGGTGTG	GAACAGCCGT	GAGCCTGTCC	ACGTTTTCT	120
CCTGATCTCT	GCTTTTCATT	AGTAATGAAT	TTCCACTCCT	TCTCCCCTTT	CATGACAAAT	180
CACTACAGTG	AATGTAATTG	CCACATCCAG	CGATGCATCA	TCTCCCACT	TTTCTAGGCT	240
GCAGAGAAGG	AAGCAGCCCT	TGTGCAGCAA	GAAGAAGAAA	AGGCTGAACA	ACGGAAAAGA	300
GCTCGGGCTG	AGAAGAAAGC	GTAAAGAAAG	AAGAAAAAGA	TCAGAGGCC	AGAGAAGCGC	360
GGAGCAGATG	ATGGACTCGA	G				381

(2) INFORMATION FOR SEQ ID NO:1194:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 294 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1194:

GCGATTGAAT	TCTAGACCTG	CCTCTCTTAC	CCTTGGCTTA	CTAATATATT	CTTAGTGGCA	60
TTTCATTG	TGGTACTGGT	GGCGCATTCA	AACAGGACAC	TTGTATCTGA	GTGAGCAGCT	120
GGAGCAGTAA	GAATGACAAC	ACTTGGTCTC	TGCAGATTGG	CTGGACCCAC	CACTCTGGTG	180
CTAGTGTGG	CTTGGTGGCT	GAGGAACAA	GCAGGAAGTA	GAAGAGAAA	TGAGATGTGG	240
GTGGACTGGG	AAGAGAGGAC	AGATTGGGA	GGGGAGGGAA	AGTGCAAAC	CGAG	294

(2) INFORMATION FOR SEQ ID NO:1195:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1195:

GCGATTGAAG TCATTGCCAC GCCTACTAGT TTGCACTAAA GGAAAGTCAG TTTGGTATGA	60
ATTACAATGG CCAACGTTAC ATTCTCCTCC GTTTGTGTTT TTTTTTTAA TCTCAATTTC	120
TCTTACTTTT CTTATCCCC CTATGCTGAT GCCAATCAGT TTCTTTGGG AAAGTTTAA	180
CAGATCGGTT TTATGTTTG AAGTACAGCA AGTATTCAT CCTCTCTTTA AAATACAAAA	240
CCCAGAACC CAGGAGCTCG AG	262

(2) INFORMATION FOR SEQ ID NO:1196:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1196:

GAATTCCGGCT TCATGGCCTA GACCGTCTCA AAGAAAACAC ATATACCTTT TGCTCAGATT	60
ATTGTTAAAT TTTACCTCAT TTACTTTATC AATTGCTCTT TCTCTATTTA TGTGTATCAG	120
ATTATTGTTA AATGTTACCT TATTGCGCTT ATCAATTGCT CTCTTTATGT ATGTTTGTGT	180
GTACTGTTGC ACATGCAAAT GCACACAAAT ATATGTTCT GAATTTTTG AGAGTAGATT	240
GCATACATTA TGGGACCTGC CTCGAG	266

(2) INFORMATION FOR SEQ ID NO:1197:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1197:

GAATTCCGGCC TTCATGGCCT AAGAAACACT TTTAAAATC TTTCACTAGT TATTTGTAC	60
ATAGATAAGA TAGTTGATTC CCAGCTTTA TCTGTAAAGT TGTCTATAATT GGAATTAAC	120
TCGGTGATTC TGTGTGATAA AACATTGTTA TATTTTTAGG TGTGTGCGGA TTTTAGGCAA	180
ACAAGAAAAT ATTAGAGTGA TCGAATTGGC TTTGTTCCAG GGGATGCTCG AG	232

(2) INFORMATION FOR SEQ ID NO:1198:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1198:

GACCTTTACC ACTAAAGTGGAA	GCACCACTTGTGCT	AATGAATCTG	GGTCCTGAGA	60
ATTGTGCAAC ACTGCTGCTC	TTTGTGTTAC	TTGAGAGTAA	AATTCTGCTG	120
GGCCAGCTGT CTTGACTGGG	GTAGCTGAAG	CTGTTGTAGC	TATGATCTT	180
GGCAATGCCCT ATATATTCCC	CTTGTGCTC	TTTCACTGGC	TGCAGTGCTT	240
TACCATTTAT AGTTGGAGTT	GACTCAAGGT	ATTTTGATCT	AGTGCACCTT	300
AG			CCAAGGCTCG	302

(2) INFORMATION FOR SEQ ID NO:1199:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 231 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1199:

GCCACTGCTC	CTGGCCAGGA	CTCTCTTATT	AGGTTTGACA	TTTCAAGAGT	TTAGAAATTA	60
CCTTCCAGAA	TTCACAGGTAA	AAAGCCAGAC	CTCTCCTTGG	TGAAGATACA	ATTCTTACA	120
ATTTTACAT	AGTTAAGTAT	ATTTTATCAG	TCTATATTGG	CTGTTTAGTT	GACAAACCGT	180
AAAAAATTGG	TGACAGTCCA	GATGTGGTCA	CTCATGCCCTC	TAATCCTCGA	G	231

(2) INFORMATION FOR SEQ ID NO:1200:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 235 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1200:

GAATTCTAGG	CCTGACCCAG	CCCCCATGGC	TTCAGAAAGAG	CTACAGAAAAG	ATCTAGAAGA	60
GGTAAAGGTG	TTGCTGGAAA	AGGCTACTAG	AAAAAGAGTA	CGTGATGCC	TTACAGCTGA	120
AAAATCCAAG	ATTGAGACAG	AAATCAAGAA	CAAGATGCAA	CAGAAATCAC	AGAAGAAAAGC	180
AGAACTTCTT	GATAATGAAA	AACCAGCTGC	TGTGGTTGCT	CCCATCACTC	TCGAG	235

(2) INFORMATION FOR SEQ ID NO:1201:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 119 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1201:

GAATGAGAGG	TCAGAGTATT	CCATTGCACA	CGCACCCCTG	GGCTGACAGA	CTTGTGCCCC	60
CTAGCCTTCA	TGCATGCCCA	AGCACTGGCA	GCTTGCAGC	CCCTGCCCCA	CGACTCGAG	119

(2) INFORMATION FOR SEQ ID NO:1202:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1202:

GATTGAATTC TAGACCTGCC TCGAGATTCT TTGAGCACTT	60
AGATCCCTT CCTTACTTGT TGGGGGAGG TCTGGAGCAC	120
CTCGCCAATG CCCCTCCCC	180
ATCCGGCTGG GTCCCTTCCAG TTATTTATTT GTGTATTATT	240
TTATTTATCT ATTTATTATT	300
CTATTTAATC TCTTGGCCTC ACCCAGGGAC CGTCTGGCTT	360
CCCCAGCTGG ACTGGGAGGT	366
CAGGAAGCCA GGCAAGGAGA GGGACAGCAC AGGCCACAGA	
GGGCTCCCCC CACCACACAC	
ACCCCCCGCTG CTCGGGAGAA ACCCACCCCTC TTCAGAGCCT	
GCACTCGCTA AGGAAGGGGA	
CTCGAG	

(2) INFORMATION FOR SEQ ID NO:1203:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1203:

GGTGAGATGG AAAAGGAGTT TCCTGAGCTT ATCCGAAGTG TTGGTTACT TACGGTAGCT	60
GCTGACTCTA TCTCTACCAA TGGCAGTGAA GCAGTTACTG AGGAGGTATC TCAAGTATCT	120
CTCTCAGTAG ACGACAAAGG TGGATGTGAG GAAGACAATG CTTCTGCAGT CGAAGAGCAA	180
CCAGGCTTAA CACTGGGGGT GTCATCATCT TCAGGAGAAC CTCTGACAAA TGCTGTTCAA	240
CCCTCCTCTG AGACTGTGCA GCAAGAACCC AGTCCCTCCT CCCATCATGA TGCAAAGAAC	300
CAGCAGCCTG TTCTTGTGA AAATGCAACC CCCAAACTCG AG	342

(2) INFORMATION FOR SEQ ID NO:1204:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 645 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1204:

GAATTCCGGCT TCATGGCCTA CGTCTTTCTA ACTATCTATG GGGTGGAGCT GTTCTGAAAG	60
GTTGCCGCC TGGGCCCTGT GGAGTACTTG TCTTCCGGAT GGAACCTGTT TGACTTCTCC	120
GTGACAGTGT TCGCCTTCCT GGGACTGCTG GCGCTGGCCC TCAACATGGA CCCCTCTAT	180
TTCATCGTGG TCCTGCGCCC CCTCCAGCTG CTGAGGTTGT TTAAGTTGAA GGAGCGCTAC	240
CGCAACGTGC TGGACACCAT GTTCGAGCTG CTGCCCCGGA TGCCAGCCT GGGCTCACC	300
CTGCTCATCT TTTACTACTC CTTCGCCATC GTGGGCATGG AGTTCTCTG CGGGATCGTC	360
TTCCCCAACT GCTGCAACAC GAGTACAGTG GCAGATGCCT ACCGCTGGCG CAACACACCC	420
GTGGGCAACA GGACCGTGGT GGAGGAAGGC TACTATTATC TCAATAATT TGACAACATC	480
CTCAACAGCT TTGTGACCCCT GTTGAGCTC ACAGTTGTCA ACAACTGGTA CATCATCATG	540
GAAGGGGTCA CCTCTCAGAC CTCCCACGG AGCCGCCTCT ACTTCATGAC CTTTTACATT	600
GTGACCATGG TGGTGTGAC GATCATTGTC GCCTTTATCC TCGAG	645

(2) INFORMATION FOR SEQ ID NO:1205:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1205:

GAATTCCGCC	TTCATGGCCT	ACAGTACACA	AGTGCTAGCC	CTAGCAGCTC	GCGATGTGCT	60
TCAGCAGAGC	AGACGCTCG	GATAACTACC	CTTTTGGAAC	ATGTCAACAG	AGGAAACTTT	120
TTCTCACTT	CCATCCCCCG	AATTGATTG	GGAAACAAGTT	TGTCCCTCTT	AGGGGATCAC	180
CCCACAGAGG	GCCTGGGTGT	TATTTTCAG	ATGGATATGG	CTTGGCATAC	GACTTATCTA	240
AGATCCAAC	CAGTATAAAA	GGATATACTT	TGGGAGGCCAG	AACAGCTGTG	AGGTTTAAGC	300
CAATACAGAA	GGAAATGACA	CCTCATGCAG	GCAGGT			336

(2) INFORMATION FOR SEQ ID NO:1206:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1206:

GGAAAATCTG	AACAAACAAC	CGAATAAGCA	GTGGAAGAAA	TCACAAACAT	CTACAAATCC	60
AAAAGCTGCT	CTCAAGTCTA	AGATAGTTGC	TGAATTTCGA	TCTCAGGGCC	TAATTGAAGA	120
GCTGTTGCTA	TACAAGCGCT	CAGAAGATCA	GATAGAACTG	AAGGAAAAGC	AGTTGTCAAC	180
TATGAGGGTG	GATGTGTGCA	GCACAGAAAC	TCTCAAATGC	TTAAAAGAGT	AAACAGGTGG	240
GAAGAAGTTC	TCCAAAGAAT	TTGAAGAGGC	AAGCTCCAAG	CTGGAAGAAT	TTGTGAATGG	300
ATCACTCGA						309

(2) INFORMATION FOR SEQ ID NO:1207:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1207:

GAATTCCGCC	TTCATGGCCT	ACAGCTTTG	AGCGGAAACC	TGAAAGAAGG	TTTGCAGTAT	60
CTTCAGAGTC	TGAATTTGA	GGCGATAGTG	ATGAGCCAGC	TAATCCCT	GAAGATTTGC	120
CTGCCCTCAG	TGGTTAACCT	TTTGCTGCA	ATCACAAATA	AGTACCAAGCT	CGTCTCTGC	180
TACACCATCA	TTGAGAGGAA	CAATCGCCAG	ATGCTGCCAG	TCATTAGGAG	TACCGCTGGA	240
GGAGACTCAG	TGCAGATCTG	CACAAACCCG	CTGGACACCT	TCTTCCCTT	TGATCCCTGT	300
GTCGCTGAAGA	GGTAGGTACT	TTTAAACGTT	GACATCTCGA	G		341

(2) INFORMATION FOR SEQ ID NO:1208:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 588 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1208:

GAATTCCGCC	TTCATGGCCT	ANCGAGCGGC	AGGTGTGCAC	AGAGGTNCTC	CACTTTGTNT	60
TCTGAACTCG	CGGTCAAGAT	GGTTTTCTCT	GTCAGGCAGT	GTGGCCATGT	TGGCAAGAACT	120
GAAGAAGTT	TACTGACGTT	CAAGATATTTC	CTTGTATCA	TTTGCTTCA	TGTCNTNCTG	180
GTAACATTT	TGGAAGAAGA	TACTGATAAT	TCCAGTTGTTG	CACCACCC	TGCTAAATTA	240
TCTGTTGTCA	GTTTGGCCCC	CTCCTCCAAT	GGTACTCCAG	AGGTTGAAAC	AACAAGCCTC	300
AATGATGTTA	CTTTAACGTT	ACTCCCTTCA	AACGAACAG	AAAAAACTAA	AATCACTATA	360
GTAAAAAACCT	TCAATGATC	AGGGCTCAAA	CCCCAGAGAA	ATATCTGCAA	TTTGTATCT	420
ATTTGCAATG	ACTCAGCATT	TTTAGAGGT	GAGATCATGT	TTCAATATGA	AAAGAAAGC	480
ACTGTTCCCC	AGAATCAACA	TATAACGAAT	GGCACCTTAA	CTGGAGTCCT	GTCTCTAAGT	540
GAATTAAAAC	GCTCAGAGCT	CAACAAACCC	CTGCAAACCC	TACTCGAG		588

(2) INFORMATION FOR SEQ ID NO:1209:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 418 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1209:

GAATTCCGCC	TTCATGGCCT	ACAAGGATAG	AATTCAATTCC	ACCTATATGT	ACTTAGCAGG	60
GAGTATTGGT	TTAACAGCTT	TGTCCTGCCAT	AGCAATCAGC	AGAACGCCCTG	TTCTCATGAA	120
CTTCATGATG	AGAGGCTCTT	GGGTGACAAT	TGGTGTGACC	TTTGAGCCA	TGGTTGGAGC	180
TGGAATGCTG	GTACGATCAA	TACCATATGA	CCAGAGCCCA	GGCCCAAAGC	ATCTTGCTTG	240
GTTGCTACAT	TCTGGTGTGA	TGGGTGCAGT	GGTGGCTCT	CTGACAATAT	TAGGGGGTCC	300
TCTTCTCATC	AGAGCTGCAT	GGTACACAGC	TGGCATTGTC	GGAGGCCCTCT	CCACTGTGGC	360
CATGTGTGCG	CCCAGTGAA	AGTTTCTGAA	CATGGGTGCA	CCCCAGGGAG	TGCTCGAG	418

(2) INFORMATION FOR SEQ ID NO:1210:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 379 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1210:

GAATTCCGCC	TTCATGGCCT	AGGTTGCAAC	TGCCACGCAG	CAACTGCCAC	GCAGAAAAAG	60
GAGGGGTGAA	AAAGGGAGTA	GCTTCTGATA	TTCAGAAGCT	ATTGGAAGAG	ATGCTCAAAG	120
AAGAAAAAAAT	TACCATATACT	CAATAAAGAA	GAAGACCTGA	GATCCAGGAA	GCAGATGATC	180
TGAACGTGAG	AGAAAGTTCA	GGAAAGTTCC	CTCATTCTATG	ATGATGGGAA	ATAACAGTAA	240
ATTCTGTACA	GCAGTCTTGG	ACAACAAACCA	ATCTAAACTG	GCACAGTGCA	GAGGCAATCA	300
ACAGAGAAACA	TAATATTGAT	AGAATGCCCTG	ACGCTTTGA	TTCTATTAC	AGGAAACATA	360

AAACAATTGGA AAAACTCGAG

379

(2) INFORMATION FOR SEQ ID NO:1211:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 380 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1211:

GAATTCCGGCC	TTCATGGCCT	AGAACAGGG	TATTATTTAT	CCTCTTAGCA	TATGTTTTGT	60
AATGATTCTG	TTACATCAGA	GCTTCTGTTG	ATGAGTGCCA	CTAAAGTGAG	ATTGTTGATG	120
AGGATTGGCC	<u>TTATTTTTT</u>	<u>GTGTTCTAT</u>	<u>TCAACTATG</u>	CCACAGCATT	TATTTCTAA	180
AAACATTTCTA	CGGTCTATAAC	TTATCAGTGT	CTGATCACAT	GCAGGCACTG	GTCAAGGTGG	240
AGCATGGTCTG	AGGCCTTCTT	ACTGATACAA	ACTCGTGCCT	TCTCTGGAC	ACAAGGAGCC	300
CATGTTCTGG	<u>TTAACTCTGT</u>	<u>GTTCATTTAT</u>	<u>TTCACTTGTC</u>	ATGCATCGCC	TCTATCTTCT	360
CCCTTTATTG	CGTCCTCGAG					380

(2) INFORMATION FOR SEQ ID NO:1212:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 430 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1212:

GAATTCCGGCC	TTCATGGCCT	AGTAAGGGT	ATTGGTGGTG	TTTTTCCCC	TTTACCTCTC	60
ATTTGGGCAT	TTTAAATAG	GAGGCCACT	TCATTTACTC	CTGTTAGTA	AATCTAAATG	120
AGTGTAGGTT	TTAAATTAGA	TTTTTCCA	AAACCTTC	GAAGGTCTAG	TATAGGGCA	180
GTTGATAAGT	AAAGTGGAAAGC	ACCTGGGCA	GGACCCAGTG	ACCTGTCCTT	TTACTTATTA	240
CAGCACCTGC	ACGGGAAGCA	GATCTGGAGG	ATGAAATTAA	ACCTGTTACA	GTGTGTGTAT	300
GTTTTAGGGT	GTGTGTTTC	CGAAACTGT	GGGGAGTTCC	CTTTTCCCT	CTCCCATGAT	360
GGATTCTTT	GTCTTCTAG	AGATACCATA	GGAGGATATC	TGGATTTTC	ACCTAAGGCA	420
GTGTCTCGAG						430

(2) INFORMATION FOR SEQ ID NO:1213:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 437 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1213:

CTCGAGTCTC	TCCTGTTAAT	CTCCATTATA	AAAAGGATC	ATGAGGCTGC	CAAGTGCTAA	60
AAATGGAGAT	GGTCTAGTAA	CTAGAAAACT	CCCCACCCCA	GGGAGCACAC	CTACGTATGT	120
CCCTACAAACC	TAATAATGTG	ATGTGTTTG	GAACACAGAC	ATTAGAACCTT	CATGAAGTTT	180
TAACGTGTA	TTCTTCCCA	AGCATCATCA	AGTTAIGATT	TAGGCAATGT	ATGATTGAAA	240

TGCATTCA TT CATCACGCAT AGGCACAATC ACAGAAATAT TGCACAAAAT ATGCCCTGA	300
CTGAAACTGA GACGTACAAA AACGTATTTT ACTCTTCGTA AAGAAGTTTG TGAGGAAATA	350
CAACTCTGCG ATCGTATAGA CATGTTTCCT GATAATACAC TGACATTAC AACAGTAGG	420
CCATGAAGGC CGAACATC	437

(2) INFORMATION FOR SEQ ID NO:1214:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1214:

GAATTCCGCC TTCATGGCCT AAAAAGAAAT GATGTTTCT CTCCAACAGT GTGTTTTAT	60
TTCTTTCATC TACCTGTCCA GTAATCATTT TAAAAAAAGAA AATAGCATTAA GTTACTGCCT	120
GTGTGATGTG GCCCCGGCTT ATCTGCACTC TCCCTCCTGT TTACTGTTCC AGCCACCTCA	180
GCTTTTCTC TGTTCTCTA GCATGGCAAG CTTATTCCCTG CCTCATGACT CTTTCGCATG	240
GTGTTTCTAG ATTTTCTCTG TAGCACTCTG CACGCATTGT CCACCTAAAC TCGAG	295

(2) INFORMATION FOR SEQ ID NO:1215:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1215:

GACCTGCCGC GAGTGTGTT GATAGCTTGC TCAAGATCAC ACAGCTAGTA GGTAGTGAGG	60
CTAGGATTTA GACTTAAGTA GTTGGTTGTA GAGTCCACGT GTTTAACCAT TACACTACTT	120
TGATAACAAT ATCATTATTAA TTATTATCTT TTTTTTTTTT TTGATACAAA GTCTCACTTT	180
GTTGCCAGG CTGGAGTGCA GTGGCATAAT CATGGCTCAC TGCAGCCTCG AACTCCTGGG	240
CTCAAGGGAT CCCCCCACTC TCGAG	265

(2) INFORMATION FOR SEQ ID NO:1216:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1216:

GAATTCCGCC TTCATGGCCT AAAAGAAGGA GCGGGAGAGA AAAAAGCGAG ATGAAGAAAA	60
AGCGAAACTG CGGAAGCTGA AAGAAAAAGA AGAGTTAGAA ACAGGTAAAA AGGATCAGAG	120
TAAACAAAAG GAATCTAAA GGAAATTGTA AGAAGAAACT GTAAAATCCA AAGTGAATGT	180
TGATACTGGA GTAATTCCCTG CCTCTGAAGA GAAAGCAGAG ACTCCCACAG CTGCAGAAGA	240
TGACAATGAA GGAGACAAAA AGAAGAAAGA TAAGAAGAAA AAGAAAGGAG AAAAGGAAGA	300
AAAAGAGAAA CACAACAAAA AAGGACCTAG CAATGCCACT CGAG	344

(2) INFORMATION FOR SEQ ID NO:1217:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 371 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1217:

GAATTCCGCC	TTCATGGCCT	AGCCATTATT	AAGACCTGTG	ACAAAAACTA	TAGACATGAT	60
GCAGTGAAGA	TTCTGAAACT	CAAGCCTGTG	CTGCAGAGAA	GTCTCACTCA	CCCTCCTACC	120
ATAGCCCCAG	AGGGGTCAG	ACCCCAGGGT	GGTTTGCCCA	GCAGCAAGCT	AGACAGTGGA	180
TTTGCCAAGA	CATCTGTTGC	TGCTTCTCTA	TACACACAC	CCTCTGACTC	CAAGGAAATT	240
ACTCTTACTG	TTACTTCAAA	GGCACCTGAA	AGACCTCCTG	TTCATGACCA	ACTTCAGGAC	300
CCACGACTGC	TGAAGAGGAT	GGGCATTGAG	GTCAAAGGAG	GAATATTCC	TTGGGATCCA	360
CAACCCCTCGA	G					371

(2) INFORMATION FOR SEQ ID NO:1218:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 349 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1218:

GAATTCTAGA	CTCCCGCGCG	TACTCGGCCG	CCTGAGCGAT	ACTAAAAATGT	CTGATGATGC	60
TGGTGACACC	TTAGCCACTG	GAGACAAAGC	AGAAGTTACT	GAGATGCC	ATAATGATT	120
TTTACCTGAG	GATGAGAAG	TGCAATTGTA	TTCAGCTGCA	GTTCACATG	AGCCAACACC	180
AGCTGACCCC	AGAGGGGAGG	GGCATGAAA	TGCACTGTG	CAGGGTGCAG	GGGCTGCCGC	240
CATTGGGCC	CCTGTGCAGC	CTCAGGATGC	CAACGCCCTG	GAGCCCCCTC	TCAATGGAGA	300
CGTGAATGAG	GATACACTTG	CTGAATGTAT	TGATTCC	AGCCTCGAG		349

(2) INFORMATION FOR SEQ ID NO:1219:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 392 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1219:

GAATTCTAGA	CCTGCCCTCTC	CTGTCACCTTC	CTTGTGTTTT	CTCTGTGACC	GGCCTCTGTT	60
CCCACCAACC	TTTTGGAACT	GCTGTCCCTGA	TGGTCACCAG	TGCTTTCTTA	ATAGCCAAAT	120
TCAGTGGCCT	GTCCCTCAAGC	TCCCCCGAAT	TCTTGGCCA	CACAGATCAA	CCTCTAAGTC	180
CTGGGAACTC	CCTCCTTTGT	GATTTGAGG	CGCTGTGTC	TGCAGGCTCT	GCTTTCCCT	240
CCCATCACCC	CATGGTTCTT	CCTTCTCCTC	TGACCCCTCC	CTCTTCCATT	TCTCCCACAG	300
CTCTGTCCAC	AGCCACAATG	TCCATAGGAG	CCTGCCACAC	CCTTTATCCA	ACTGCAGCCT	360
CAACCCACCT	GCAAGGACC	CCTGAACTCG	AG			392

(2) INFORMATION FOR SEQ ID NO:1220:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 598 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1220:

GCAAGCTACT TCTTCAACAG CTGTATCTGC TTCAAAGCCG ACTGCCTCTC CTTCAAGCAT	60
TGCAGCAAC AATTGTAATCG TGAAATACGTC ATCAATTGCA ACGTCTTCAA TGAAGGGCT	120
TACGACTACA GGAAACTCGT CTCTTAATAG CACATCTAAC ACTAAAGTAT CAGCAGTGCC	180
TACAAATATG GCTGCCAAGA AAAACATCTA CCCCCAAAAT AAATTTTGTGTT GGTGTAATA	240
AGCTGCACTC NACGAAAT AAAGCAGGAG ACCTTAAAGG GGACCCCAAT GTGTTAAAG	300
TAATCCTGTC ATTCTGCTG TGCAGATTCC TGAAGTAAAG CAAGACACAG TGTCAAAACC	360
AGTCACACCT GCATCTCTG CTGCTTACA GAGTGTGTC CAGCCAGTGG GCCATGATTA	420
TGTGAAAGAG GTACGAAATG ATGAAGGAA AGTAATTGCG TTCCATTGTA AATTATGCGA	480
GTGCACTTT AATGATCCA ATGCTAAGGA GATGCACTTA AAAGGGCAA GACACAGACT	540
TCAATATAAA AAAAAGCTAA ATCCAGATTG GCAAGTAGAA GTAAAGCCAA TACTCGAG	598

(2) INFORMATION FOR SEQ ID NO:1221:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1221:

GAATTGGGCC TTCATGGCCT AGAGGGAGTCC TGTCAAGTTG TTCTCTGCTG TGTCCCCAAG	60
ACCATGAATC ATGGCTGGCA TGTAGTAGGC ATTTAATAAT ATATGTCAA CAAGTATTG	120
GCAGTCTTGG AGGGCAGAAA AGGAGGTGGG GAAGATTTT AAATAACATT TTTAAAAAG	180
TCACATTGTC CTACAATACC GATTTTTCTT GCATATTAG GAAATTGAGG GTTTTTCT	240
AAAACATGCG GACATATGGG AAATAGGATG CAACATTGCA ACTAATGTT CAGACACAGT	300
TAGAGGTTTC CAAGAGATTT TGCCTGGGT CACTCGAG	338

(2) INFORMATION FOR SEQ ID NO:1222:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1222:

GCTCGAGTGA CATGGAAACT GAGGTCTTAG AGACACGTGT AATGGAGAGG AGAGGAATGG	60
AGACCTGTGC GATGGAAACC AGAGGGATGG AAGCAAGGGG CATGGATGCA AGAGGATTGG	120
AGATGAGGGG CCCTGTCCCC AGTTCAAGAG GCCCTATGAC TGGTGGAAATT CAGGGTCCTG	180
GTCCCATTAA TATAGGGCA GGTGGCCCTC CTCAGGGACCC CAGACAGGTC CCAGGCATTT	240
CAGGGGTGGG GAATCCTGGA GCTGGTATGC AGGGTACAGG CATAACAAGGA ACAGGCATGC	300

ACGGAGCAGG CATAACAAGGA GGAAAAATGC TCGAG

335

(2) INFORMATION FOR SEQ ID NO:1223:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 534 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1223:

GAATTCCGCC	TTCATGGCCT	AGGTACAGAC	TGAACCCAGG	AACCCGGGTA	TCTGCGTCCT	60
GAGTCCCAGC	CCCCACCAGG	ACTGGGGCCT	CCTCACATCT	ACTCTGAGGA	CAGAACATCTAT	120
TGGCAGAGTC	TTCCTTTTG	TTTGGGATGC	TGGGTTTGAG	AACATGCCGG	GAACCAAGAG	180
TCGTGACTAA	TCCAATTTCG	AGCGCTTGTAG	GACCAAGTGG	AAAGAAAATC	AAGCAGATTT	240
AAAGTGACCA	ATGTCGTTT	ATGCCCTTGAG	GCCCCCTGAG	AAGCAAACAA	TAATTTGTG	300
TGTGTGTGGA	CAAATACATT	TGTATTCCAG	ATCTCACAGA	ATTTCTACA	CAAAGAAATT	360
TGCAAGGAAA	ATGGACATTG	CACCCCTAAA	ATTAACAAGG	AAAGAAGGTA	CCAGGAGCAA	420
CAACTCATTA	ACAGGAACAG	AAACAATATT	GCAAATATTT	CAGATGCAA	GTGTATCCGA	480
CTTATAATAC	AACTGTCCCT	ACTGTGTCTA	AAGAAATGAA	AGGCAATCCT	CGAG	534

(2) INFORMATION FOR SEQ ID NO:1224:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1224:

TCACGAATGG	CCCACAGGGA	TCAGGAATGG	TATGATGCTG	AAATTGCCAG	AAAATGCAA	60
GAAGAAGAAC	TTTTGGCTAC	CCAGGTGGAC	ATGAGAGCCG	CTCAAGTAGC	TCAAGATGAA	120
GAAATCGCTC	GACTTCTAAT	GGCTGAAGAA	AAGAAAGCTT	ACAAAAAAAGC	CAAGGAGCGG	180
GAGAAATCAT	CTTTGGACAA	AAGAAAGCAA	GACCCCGAGT	GGAAGCCAAA	AACAGCTAAA	240
GCAGCAAATT	CCAAGTCAAA	AGAGAGTGTAT	GAACCTCACC	ATTCTAAAGAA	TGAAAGGCCA	300
GCACGGCCAC	CACCCCTAT	CATGACAGAT	GGTGAAGATG	CGGATTCTCT	CGAG	354

(2) INFORMATION FOR SEQ ID NO:1225:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 488 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1225:

GCAACAAAAAC	AAAACAAAAAC	ACACTTATGG	TAACCCATTG	TGTTGAGGAG	TCCAAAACTC	60
GAATAAAAGCG	CCTCATTGCC	TTTAACTGGT	TCTGTGGCAG	TGAGATCATC	ATCCTTATGC	120
TGGCTCACCT	AGTGTCTCTC	TCTCTCTCCC	GTTCCTCTTC	TCCCTCTCTT	ATCCCCTTGA	180
CTCTCCCCAC	TTCTCATCTT	CTCTTTAGAT	TAATGTGGTAG	CTATCCTCAA	GAGCTCATAG	240

TGCCTGCCCTG GATCACTGAC AAAGAACTGG AAAGTGTATC AAGTTTCAGG TCCTGGAAGC	300
GCATCCCTGC CGTCATCTAC AGGCACCAGA GCAATGGAGC TGTCAATTGCC CGCTGTGGAC	360
AGCCAGAGGT TAGCTGGTGG CGCTGGCGAA ATGCAGATGA TGAGCATCTG GTACAGTCAG	420
TAGCCAAAGC TTGTGCCCTCT GACTCCCGAT CGAGTGGCAG CAAGCTGTCA ACTAGGAAAC	480
GACTCGAG	488

(2) INFORMATION FOR SEQ ID NO:1226:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 328 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1226:

GATCCCCACC AAAACAGGAA AAGAAGTGCT CTCGTGCAGG GCTTGTTCAC AGTGAGCCTG	60
GCTGGCTCT CATGATCTCT GAGTTAAAAA TGTGCCAGCA GATGATTTTA ACGATCCCCT	120
CAAAAATTGT TGTCTGGATC AGTTTCGAGC TAGCGTTCC TTGCAGAGGC CATTCTTCCT	180
TTTTTGACAA AAGTTGGGTC GGCCAGGTGC AGTGGCTCAT ACTTGTGATC CACCTGCCCT	240
GGCTCCCAA AGTGGGGGAA TTCTAGGCAT GAGCCACAC ACCCTGCCAG AAAATGGAT	300
TTAAAAAGAG ATTACAAAG TACTCGAG	328

(2) INFORMATION FOR SEQ ID NO:1227:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 527 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1227:

GAATTCCGGCC TTCATGGCCT AAAATTTTTA AAAATATTT ATAATGATAG TTAGAGAACT	60
GTTTATATGA GGATCAGACA TTGTTTCAGC ACTGGATCTC CTCTGTCCCC TCTCTTGCTA	120
CAGCATACAG CCCAGAGACA CACATGTAAA AGTAGATGAT CTCTGTAAAC TTCACTGCA	180
TTTCTGTATG TGTAGGATTG TCCTANTATC AGATATCCTT TGAGAAAGAG TTGGAGAGGC	240
ATGGAAGGAA GCATATTCTT GACCTCCCCC CTTTTTAGCT AAAGATACAA ATTCAAGAGCT	300
GTTTGAAAG GGCTTAAAT AAATTTAATT AAACATATTG TATAATACAA AGAGAAGTAC	360
TTTTTTAAAAA TACATTATT TTCTCTTCTT TTCTAGCAGG CATTCTGAC AGAAAATCTT	420
TAGGGCCAAT TAGAGTTCTT TTCTGACTTT TAATTGCCCT CTGCTTTG GGAAAGTGT	480
GAAAAAAAGCT CTGGAAAAAA ATATGCTGGT CAAGGTGCGA ACTCGAG	527

(2) INFORMATION FOR SEQ ID NO:1228:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 278 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1228:

GAATTCTGGCC	TTCATGGCCT	AAGAAAACAG	CCTAGAATTA	AACCTCCAAG	ATGAGTGTGA	60
GATGAAGCCT	TTCCACCTAT	CCCAACAAGG	TTTAAAAAAA	ATAAAAAACTA	GAATGGGGCT	120
ACTACACAAC	AGCCCCTTGC	CCCACCCAAG	GCTCATTCCT	TAGAGGCAAG	TGTACGGAGTT	180
TATTTCTCT	TGAAATTATT	TCCATATCTC	CAAATAGTGT	TTATACCACT	CAAGGCAGAG	240
ATAGCAATT	GCCTACCCAG	TATACATTTC	CCCTCGAG			278

(2) INFORMATION FOR SEQ ID NO:1229:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 603 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1229:

GAATTCTGGCC	TTCATGGCCT	AGCCACCTTG	AAGCTCTCAA	ATATCACTGT	TGTGAATAACA	60
GAGAGGGAAA	ACCAACTGTA	ACGTGCCACC	CAAATTTTT	CAGATTAAATA	CATCATTTCAT	120
CAGACTTCAT	TCGTGATCTC	GAAGAGTGAC	ATCAGTCTTC	CTTGAATAT	GAAGAGAATT	180
TCTTTGGTTC	TTCTTTGCA	TTCTATTTG	ATTTATTTA	TTTTATTTTA	TTTTATGTTT	240
TTTGGTACAG	AAAGCTCATT	ACTAGTCTCG	TCCAGCAACG	TGCCCTCTCT	GGCCCTAGAG	300
TTCTTGGAAA	TAGCCCAGGC	CAAAGAGAAG	GCCTTTCTCC	CCATGGTCAG	CCACACGTTTC	360
CACATGCGCA	CAGAGGAGTC	TGATGCCCTCA	CAGGAGGGCG	ATGACCTACC	CAAGTCTCA	420
GCAAAACACCA	CCCATCCCAA	GCAGGGATGAC	AGCCCCAAGT	CCTCAGAAGA	AACCATCCAG	480
CCCAAGGAGG	GTGACATCCC	CAAGGCCCCA	GAAGAAACCA	TCCAATCCAA	GAAGGAGGAC	540
CTCCCCAAGT	CCTCGGAAAA	AGCCATCCAG	CCCAAAGAGA	GTAACATCCC	CAGAGCCCTC	600
GAG						603

(2) INFORMATION FOR SEQ ID NO:1230:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 362 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1230:

GAATTCTGGCC	TTCATGGCCT	ACCGGGCACT	TAGGCCAACG	CGCCGGGTTTC	AGGCCCTCCAA	60
AAACCCCCCTG	AAAATGCTGG	CGGCAAGAGA	AGATCTCCTT	CAGGAATACA	CTGAGCAGAG	120
ATTAAACGTT	GCCTTCATGG	AGTCAAAGCG	GATGAAAGTA	GAAAAGATGT	CTTCCAACTC	180
CAACTTCTCA	GAAGTCACCC	TGGCGGGTTT	AGCCAGTAAA	GAAAACCTCA	GCAACGTCAG	240
CCTGCAGGAGC	CTCAACCTGA	CGGAACAGAA	CTCTAACAC	AGCGCCGTGC	CCTACAAGAG	300
GCTGATGCTG	TTGCAGATTA	AAGGAAGAAG	ACATGTGCAG	ACCAGGGTGG	TGGAACCTCG	360
AG						362

(2) INFORMATION FOR SEQ ID NO:1231:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 468 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1231:

GAATTCTGGCC	TTCATGGCCT	AGTCCCCTGTT	CAATTTCTCT	CAGCCTCAAT	ATCTTTTACT	60
TTAAACTAGG	TAGGGTTACC	AGTCAATGA	TCTGCTCATT	AAATACTTAC	TATACTTAG	120
GTACTATATG	AGAACGCTAGG	AAAAGAGTG	TGAAAAAGAC	ACACCTAGAG	AGGGCATTGG	180
ATTATTAAT	CAGCAGCTAC	TGTAAGGTG	TTAAGTTCT	GTGACAGGCA	GCATTCTGGG	240
TATCACACGA	ACATCTTACA	AGAATTCTA	ACTTCAGGAG	GAGGGTTCAG	AGAATTAGCC	300
AGGCCAGGGG	TGAGAGTGTT	CTTCCCGGAA	GAGGGAACAA	TGAAGACCCA	GGAGGAGATA	360
CAGAGTATCT	CGCTGTATTT	AAAATAACCA	GAATAGATT	TATATATT	GTACAGAGGC	420
TGAGGGGAAG	AGAAGTGAGT	GTGAGAAGAT	CAAAGGAGA	AGCTCGAG		468

(2) INFORMATION FOR SEQ ID NO:1232:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1232:

GAATTCTGGCC	TTCATGGCCT	ACAATCATCT	CAAACAGTTC	CGGGTTGCTG	CCCTTTGGC	60
TTTCCTAGGT	GCTACAGTAG	CAGGCTGTTT	TCCCCTTTC	CATAGAGGGG	AATATTCTGC	120
ATCACCCCTT	TGTTTGCCAT	TTCTTACAGG	TGAAACGCCA	TCATTAGGAT	TCACTGTAAC	180
GTTAGTGCTA	TTAAACTCTAC	TAGCATTTTT	ATTAATGCC	GTTATCTACA	CTAAGCTATA	240
CTGCAACTTG	AAAAAAGAGG	ACCTCTCAGA	AAACTCACAA	TCTAGCATGA	TTAACGCATGT	300
CGCTTGGCTA	ATCTTCACCA	ATTGCATTT	TTTCTGCCCT	GTGGCGTTT	TTTCATTGTC	360
ACCATTGATC	ACTGCAATCT	CTATCAGCCC	CCCACCTCGAG			400

(2) INFORMATION FOR SEQ ID NO:1233:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 418 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1233:

GAATTCTGGCC	TTCATGGCCT	AGGATATAGA	CCAAACCCAA	ATCCTGTTG	ACAAGGGATT	60
AGACCACCTA	TGGCTGGATC	CAACAGTTCC	GTAGGCGGCA	TGAGTATGTC	GCCAAACCAA	120
GGCTTACAGA	TGCCGAGCAG	CAGGGCCTAT	GGCTTGGCAG	ACCCCTAGCAC	CACAGGGCAG	180
ATGAGTGAGG	CTAGGTATGG	GGGTTCCAGT	AACATAGCTT	CATTGACCCC	TGGGCCAGGC	240
ATGCAATCAC	CATCTTCCTA	CCAGAACAAAC	AACTATGGGC	TCAACATGAG	TAGCCCCCA	300
CATGGGAGTC	CTGGCTCTGC	CCCAAACACG	CAGAATATCA	TGATTTCTCC	TCGTAATCGT	360
GGGAGTCCAA	AGATAGCCTC	ACATCAGTTT	TCTCCTGTTG	CAGGIGCGCA	CTCTCGAG	418

(2) INFORMATION FOR SEQ ID NO:1234:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1234:

GAATTGGGCC	TTCATGGCCT	ACGCCTCTTT	AACACATGGG	CCTTGTGTG	GACACCATCT	60
TTCCCTGAAA	CCTGCTGCA	TCTTTCTGT	CCCTCTAAC	CATCCAGTT	GTTCTCCCC	120
AAGATGGGCT	GCCACAAGTT	GCCATTCCT	GACTGGTGA	TGGTCCAGA	CAGCTCGGG	180
GCAGACACAG	GGAAGGAATC	TTATCTCGTT	TTTGTGTTTT	TGTTGTTGTT	TTTGTGTTTT	240
TCTTTTTGTT	TGTGGTGTGTT	GCTGTTGTTT	TGAAACGGAG	TCTCACTCTG	TTGCCAAGGC	300
TGGAGTGCAG	TGGCGCAATC	TCGAG				325

(2) INFORMATION FOR SEQ ID NO:1235:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 395 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1235:

GAATTGGGCC	TTTATGGCCT	AAAAAAAAAA	AAAGAAAGAA	AGAAAATGTT	GGATATAGTA	60
GGTCTGAGCT	TTATGGGAGAA	AGAAGGTTTG	AAAGTAGCTTC	TGGGATATGG	AAAAAGAACT	120
TATGAGAGAA	ACAGACTTCT	GGGAATCCTT	CAAGGACTAG	AAGAGAACAT	AGATTATGAA	180
AGAATGAGTC	ATTGATCAGT	GTAGTTGAG	ATTAGAAATAG	TTGGACAGTT	AGGATTGCT	240
AGGCAGAAGA	ATGGAGGAAG	TCACGGCCTA	GGGAGTTAAC	AGTGTAGGA	GCAAGAGAGG	300
TTTTAACTAA	TGAGCCATGG	AGTTAACGCA	GAGACAATAG	AGAATAAAGT	AAAATAGGAA	360
GAAAAATTAA	AAAAGAAAGT	AGAAAAGTCC	TCGAG			395

(2) INFORMATION FOR SEQ ID NO:1236:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 565 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1236:

GAATTGGGCC	TTCATGGCCT	ACACAATTCC	AAAGAAGGTG	GTGTGCCACT	TCAGTGGAA	60
GGCCTATGCC	GACGAGGAGC	GGTGGGACCT	TGACAGCTGC	ACCCACTGCT	ACTGCCCTGCA	120
GGGCCAGACC	CTCTGCTCGA	CCGTCAGCTG	CCCCCTCTG	CCCTGTCTG	AGCCCATCAA	180
CGTGGAAAGGA	AGTTGCTGCC	CAATGTGTCC	AGAAAATGTAT	GTCCCAGAAC	CAACCAATAT	240
ACCCATTGAG	AAGACAAACC	ATCGAGGAGA	GGTTGACCTG	GAGGTTCCCC	TGTGGCCCAC	300
GCCTAGTGA	AATGATATCG	TCCATCTCCC	TAGAGATATG	GGTCACCTCC	AGGTAGATTA	360
CAGAGATAAC	AGGCTGCACC	CAAGTGAAGA	TTCTTCACTG	GACTCCATTG	CCTCAGTTGT	420
GGTTCCCATTA	ATTATATGCC	TCTCTATTAT	AATAGCATTC	CTATTCCATCA	ATCAGAAAGAA	480
ACAGTGGATA	CCACTGCTTT	GCTGGTATCG	AACACCAACT	AAGCCTTCTT	CCTTAAATAA	540
TCAGCTAGTA	TCTGTGACGC	TCGAG				565

(2) INFORMATION FOR SEQ ID NO:1237:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(iii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1237:

GAATTCGGCC TTCATGGCCT ACACTGAGAA CGAGATGGCT ATTTATGAAT TCATTCATAA	60
CTTTGTGAA GTTTTAGATG AGTATTCAG CCGAGTGAGT GAATTAGATG TATCCTTTT	120
CAATACTGTT TTCCACAGTA CTGGCAAT GCACTCTGGT CCTTATCAGG TAAGTACCAC	180
AAGGCAGGAA AACTATTAG CAGAGTCCAG AGTGTTCATC ACCAACAACT ATGACAAGAC	240
AGCCAGAGGT GTGTGTGTC TGCAAGAACTC CTCCCCAACT TCGTCACCCA AGCTCGAG	298

(2) INFORMATION FOR SEQ ID NO:1238:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 303 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1238:

CTCGAGTGGG GGGAGGGAGG GGGAGGAGAG AAGGGGAGGT GGATGGGGGA GGGGGACAGT	60
GGAGGAAGAG GGAAGAGGGA GAAAATAAGG AGAAAAGAGAA GGAAAGGCAG AAGGGGAGGG	120
GAAGGGGGAA GGGGAAGAAC AAGGGGAATG GGAAGAGAAAT GAAGGAGAAC AGAAGAGGAA	180
GAGTAGGAGG AGAAATAACA AAAGGCACCA GTTGGAAAG GAAGAATTAA AAATATATTT	240
ATTGCAAAAC GACATTATCC TATAGTAAA AATCCTTAAAG AGTTAGGCCA TGAAGCCGAA	300
TTC	303

(2) INFORMATION FOR SEQ ID NO:1239:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 315 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1239:

GAATTCGGCT TCATGGCCTA CTCTTCTCTG AGACAGAAAA CTAGCGAACCC CCAAGGGGAAG	60
GTGCCGTGAG GAGAGCACTT TCGGATTCGG CAGAACATCAC CAGAGCACAC CCAAGGCTGG	120
CTTGGGAGCA AATGGCTCTG GCTTCTTTTT GTTGTGTC CGTTTGAT ACTGCAGTGT	180
CAAAGAGACA GTGAGAAGAA TAAGGAGCAG AGTCCTCCCTG GCCTTCGAGG CGGCCAACTT	240
CACTCTCCAT TAAAGAAAAA AAGAAATGCT TCCCCAAACA AAGACTGTGC ATTCAATAACC	300
TTAATGGAAC TCGAG	315

(2) INFORMATION FOR SEQ ID NO:1240:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 553 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1240:

GAATTCTGGCC	TTCATGGCCT	AAAATGACCT	TGGTAAGAAT	GGGTTTTAC	AATAAATGAA	60
TTTTAATTC	CAAGATGTTT	TTTCATTGAA	ATTACTGCC	CAGTTGCATT	AAAAGTGTGG	120
CTGTGCAAAG	CTTCCTTCTA	CCAGGCTTC	TGTGCAGGAC	CTTGGTTTT	GTTGCCCTGG	180
CAATTCCAAA	AGCAGGGTGT	GAAAGAGAAG	AAGACAGGAA	AAAGAAGATG	GGAGAAAAAT	240
TTTCCAATC	AGAGTTCTCA	GTCCAAGGAC	TTATTCTTG	GGGTCAAAAA	ATTCTAACAG	300
TATTTTAAA	TTGCCTCTAT	TTCGATGGTT	ACTTGATTAA	ACTGTTCTAA	CATTCTAAA	360
AATAAAAATT	TGCAATGATA	ACTTTTATAT	CAGACTTTAC	CTCTGTTCC	CAAATTGGAA	420
TCTTAGGAA	TATTTTTTG	AGATCACTT	TTTCCTTTTT	TTCTTTAACA	AAGATTGGGA	480
ACCGCTCTTA	GGAACAGACA	AATGGATTTC	CATATTCTT	AAAGCGTTGA	ACTAAATCTC	540
TGCCACCCCTC	GAG					553

(2) INFORMATION FOR SEQ ID NO:1241:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 437 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1241:

GAATTCTGGCC	TTCATGGCCT	ACTCTTCTCA	AGGCTTGAA	ATCTCCCCTT	GCAC TGAGAT	60
TAGTCGTCAG	ATCTCTCCCC	GTCTCCCTCC	CAACTTATAC	GACCTGATTT	CCCTAGGACG	120
GAACCGCAGG	CACCTGCGCC	GGCGTCTTA	CTCCCGCTGC	TTGTTCTGTC	CCCTCCCTCG	180
GACCAAACAG	TGCTCATGCT	TCAGGACCTT	GTGGTGCAGA	GATGTTGGTT	TCCCTTTCTC	240
TGTTATTAT	ATAAAAATAA	TTTATCAAAA	GGATATTTTA	AAAAAGCTAG	TCTGTCCTGAA	300
AACTTGTTTA	CCTTAAATT	ATCAGAATCT	CAGTGGTTGA	AACTACTGAA	GCACAAACAT	360
ATATCCTCTC	TGTACCATT	TGTACTAAAG	CACTTGAGTC	TAATAAATAA	AGAAATCAGC	420
ACCCCTAGGC	CATGAAG					437

(2) INFORMATION FOR SEQ ID NO:1242:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 523 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1242:

GAATTCTGGCC	TTCATGGCCT	ACAAAAATAT	GTCTTTGAA	AACCNAGTCA	AGTACCTAGA	60
GATGAAAACC	ACAAATGAGA	AACTGTTACA	GGAAATTAGAT	ACACTTCAAC	AACAATTGGA	120
TTCACAGAAC	ATGAAAAAAG	AGAGCCTGGA	AGCAGAAATA	GCTCACTCCC	AGGTGAAACA	180
GGAGCGGTA	TTGCTGCATG	AAAAACTTTA	TGAGTTGGAG	TCCCATCGAG	ATCAAATGAT	240
TCCAGAAAGAC	AAAACCATAG	GATCTCCAAT	GGAAAGAGAGA	GAGAAATTAC	TTAACCGAGAT	300
TAAGAGATGAT	AATCAGGAAA	TACCCAGCAT	GGAAAGACAG	TTAACAGATA	CAAAAGAAAA	360
GATAAAATCAG	TTTATTGAAG	AAATTAGACA	ACTTGACATG	GATTTAGAGG	AACACCAAGG	420
TGAAATGAAC	CAGAAATACA	AGGAGCTAA	GGAAAGGGAG	GAACATATGG	ACACTTTAT	480
TGAGACTTTT	GAGGAAACAA	AGAATCAGGA	ACCCAAACTC	GAG		523

(2) INFORMATION FOR SEQ ID NO:1243:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 352 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1243:

GAATTCCGCC	TTCATGGCCT	AACTGATTAC	AGGGAAAGAC	AAAAAGCAAA	AGGTGATTGA	60
AACATAGTTC	TAAATAACAA	GAAGGGAAGT	TTTCTTAAAC	TGATCATCG	TCTTATTGTC	120
ATGACAAAGG	CTAAAATTTT	ATTTCACTC	CTTAGTGCT	TTTTAATAAT	TCACCATAACA	180
TATTTTACTT	ATATCCCCATT	AACTGTGGGA	CTTAGCACAG	TTTACATTTT	CAGTCATGTG	240
AATATAATTA	TCTGTATTCC	CTGGTGGACT	GATGGGGGAA	ATTGGATCAT	TATATAATTT	300
AAAAGACACC	TCCCCAGGCA	CCCATTGTGT	TCTTAGGAAG	TCAGTGCTCG	AG	352

(2) INFORMATION FOR SEQ ID NO:1244:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 306 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1244:

GAATTCCGCT	TCATGGCCTA	ATTCAGCTTT	ATCGTTCCCT	CTGGCAGTTC	AGTTGTTGGC	60
CCAGATTAT	TAAGGTTCGA	CAGAAAGCAA	CTGAAATCTC	CCTTAGAAAT	AAAGTTCCCTG	120
GTGTGAAGAA	AAAAAAGATC	CATAAAAAGT	CTCATCCTTA	GGACAGCAAC	TTTTATAATG	180
CACAGCTGAT	CTGAATAGCT	CTCTGGATTG	TGGCCTTGGG	CAACAGTTCA	GAETGCATTA	240
TTGAGTATGA	ACCTTGAGCT	TTCTGAGTCT	CTTCTTTTGT	CTCTTTTACT	AGCAGACCT	300
CTCGAG						306

(2) INFORMATION FOR SEQ ID NO:1245:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 591 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1245:

GAATTCCGCC	TTCATGGCCT	AGGGTTGGG	GGTTCTGAGA	TGTTACTCTC	ACTGAAGTCT	60
GTGTGGGAGG	CGGATTACTA	AACAAGAAAT	TGCTAATTAA	TCTCCAGATG	GCAAGGAATG	120
GATAAAGCAC	TGTTCCAAC	AAGGTCCAAA	TGTCTCCGCT	GGAAAGAGTGT	ACAATGGATG	180
CAGTTGGTCT	TCCTGCTGGC	AACAGTACCA	CCGAAGCGCT	TGGGGCAAGT	TCCAATCCA	240
GTAACCTCTT	TTTATAATCT	TCTTGTTAA	ATCCCCTCCT	GGGAAACATG	GTTGCTAACG	300
AAAAATTAC	GTAAGTGTG	CCAACAGTCT	GTGCAGCAA	CTGCCTTGCC	TCTTCTAGAG	360
GAGCATCAGA	AGGGAACTGA	TTTGTAAGG	AAGAACCATC	AGGAAGACGG	AATTGAATT	420
TTGCAACAGT	GCTTCTTCT	CTTGCTAAAG	ATCCCCTCTT	GACTTCCATT	TCTGCTGT	480
TTGCTAGCAA	GGCAGCAGCT	TTGGCAGCCT	CTACTTCTTC	CTTTGTCTTT	GCAAAACGAG	540
CAGCTCTCTC	TGCACGGTCC	AATGCAATCT	GCTGTTTAT	ACGTTCTCGA	G	591

(2) INFORMATION FOR SEQ ID NO:1246:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 593 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1246:

GAATTGGGCC	TTCATGGCCT	ACTTCGGGGA	AGAAACCTTC	ACCAGAGTGG	AGCAGTTCA	60
ACCATGGAAC	CTCTGATCCA	AGCAGCCAG	CTCTGCAAT	AAAGAAGAA	AACCCAGGAG	120
GACGCAGAGG	CTATCTGCTC	CCTGTGTACC	TCCCTCAGCA	CCCAGCAGAT	TGTCAAATT	180
TTAACCTTT	ATACTCCCT	GAATGAATT	AAAGAACCGG	TAACAGTGGC	CTTTATACGA	240
ACAATCCAGG	CACAACTACA	AGAGCGGAAT	GACCTCAGC	AACTGCTATT	AGATGCCAAG	300
CACATGTTTC	CTGTTTGTT	TCCATTAACT	CCATCTCTC	TAACCATGGA	CTCAATCCAC	360
ATCCCAGCGT	GTCTCAATCT	CGAATTCCCTC	AATGAAGTCT	GAAGATGCAT	GTTCCAGCA	420
TTAGTTGAT	TCCCAATGTG	AGCAAGAAGG	AAAGTATATAAC	AGTAAAGTAA	ATTCAAGGAT	480
CTGTTAAATC	TGGAAAAGT	AGATCAAATC	AGAGATTGAC	AGCCTGTGGA	GGGTGCTGAA	540
CTATACAGAA	TTAGACACAA	CTATGTCATT	ATTTTTGTA	CCAACACTC	GAG	593

(2) INFORMATION FOR SEQ ID NO:1247:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 599 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1247:

GAATTGGGCC	AAAGAGGCCT	AAACTCAGAA	TGGTGTACT	TGAAGACTCT	GGATCTGCTG	60
ACCTCAGAAG	ACATTGTC	AACTTGAGTC	CCTTCACCAT	TACTGTGGTC	TTACTTCTCA	120
GTGCCCTTT	TGTCAACAGT	TCTCTGGAG	GAACAGACAA	GGACCTGAGG	CTACTCGATG	180
GTGAAACAA	GTGTAGCGGG	AGAGTGGAAAG	TGAAAGTCCA	NGAGGAGTGG	GGAACGGTGT	240
GTAATAATGG	CTGGAGCATG	GAAGCGGTCT	CTGTGATTTG	TAACCAGCTG	GGATGTCCAA	300
CTGCTATCAA	AGCCCTGGA	TGGGCTAATT	CCAGTGCAGG	TTCTGGACGC	ATTGGATGG	360
ATCATGTTTC	TTGCGTGGG	AATGAGTCAG	CTCTTTGGGA	TTGCAAACAT	GATGGATGGG	420
GAAAGCATTA	TTGCAATCAC	AATGAAGATG	CTGGCGTGAC	ATGTTCTGAT	GGATCAGATC	480
TGGAGCTAAG	ACTTAGAGGT	GGAGGCAGCC	GCTGTGCTGG	GACAGTTGAG	GTGGAGATTG	540
AGAGACTGTT	AGGGAAGGTG	TGTGACAGAG	GCTGGGACT	GAAAGAAGCT	GAACTCGAG	599

(2) INFORMATION FOR SEQ ID NO:1248:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 418 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1248:

GAATTGGGCC	AAAGAGGCCT	AACCGAATGG	ATTATCTGTG	GGAGTAACAT	CTCAGAAGAC	60
------------	------------	------------	------------	------------	------------	----

TATGAAGCTA ATTCCCTGCCT CAAGACACAG AGCTACACAA AAGGTGGTTA TTGGAGATCA	120
TGATGGGTA GTTATGTGCT TTGGCATGAA GAAAGGAGAA GCAGCAGCAG TGTTCAGAC	180
TTTACCCGGG CCGAAGATTG CAAGGCTGGA ACTGGGAGGG GTTATCAACA CACCTCAGGA	240
GAAAATTTT ATTGCTGCAG CATCTGAGAT TAGAGGCTTC ACAAAAAGAG GAAAACAGTT	300
CCTCTCCTT GAAACAAACC TCACTGAAAG CATTAAAGCT ATGTATGTCT TTTGTTCTCT	360
TTTGTATTT TACATACTTA TTTATAATAT TTTGGATAGA TGTGAGGCAA CCCTCGAG	418

(2) INFORMATION FOR SEQ ID NO:1249:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 800 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1249:

<u>GAATTCGGCC</u> AAAGAGGC <u>CT</u> AGCAGAGCAC AGCATCG <u>TCG</u> GGACC <u>AGACT</u> CGTCTCAGGC	60
CAGTTGCAGC CTTCTCAGCC AAACGCCGAC CAAGGAAAAC TCACTACCAT GAGAATTGCA	120
GTGATTTGCT TTTGCC <u>CTC</u> AGGACATCACC TG <u>TC</u> CACATAC CAGTTAAACCA GGCTGATTCT	180
GGAAGTTCTG AGGAAAGCA GCTTACAAAC AAATACCCAG ATGCTGTGGC CACATGGCTA	240
AACCC <u>TG</u> ACC CTTCTCAGAA CGA <u>AA</u> ATC <u>TC</u> CTAGCCCCAC AGACC <u>CTTCC</u> AAGTAAGTCC	300
AA <u>CG</u> GAAAGCC ATGACCA <u>CA</u> AT GGATGATATG GATGATGAAG ATGATGATGA CCATGTGGAC	360
AGCAGGACT CCATTGACTC GAAG <u>ACT</u> CT GATGATG <u>TA</u> ATGAC <u>ACT</u> GA TGATCTCACC	420
AGTCTGATGA GTCTCACCAT TCTGATGAAT CTGATGA <u>ACT</u> GGT <u>CA</u> CTGAT GAT TTTCCCACGG	480
ACCTGCCAGC AACCGAAGTT TTC <u>ACT</u> CCAG TTG <u>CC</u> CAC AGTAGACACA TATGATGGCC	540
GAGGTGATAG TGTGGTTAT GGACTGAGGT CAA <u>AA</u> ATCTAA GAAGTT <u>CG</u> AGAC <u>CT</u> GACA	600
TCCAGTACCC TGATGCTACA GACGAGGACA TCACCTCACA CATGGAAAGC GAGGAGTTGA	660
ATGGTGCATA CAAGGCCATC CCCGTTGCC AGGACCTGAA CGCGCCTTCT GATTGGGACA	720
GCCGTGGGAA GGACAGTTAT GAAACGAGTC AGCTGGATGA CCAGAGTG <u>CT</u> GAAACCCACA	780
GCCACAAGCA GTACCTCGAG	800

(2) INFORMATION FOR SEQ ID NO:1250:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 347 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1250:

CAATTGCCAA GGAAACAGGC CTTGGCCTGA AGGTACTAGG AGGAATTAAAC CGGAATGAAG	60
CCCCATTGGT ATATATTCA <u>G</u> GAA <u>TTT</u> ATTC CTGAGGAGA CTGTTATAAG GATGGT <u>CG</u> TT	120
TGAAGCCAGG AGATCAACTT GTCTCAGTCA ACAAGGAATC TATGATTGGT GTATCATTG	180
AAGAAGCAA AAGCATAATT ACCGGAGCCA AGTTGAGTAC TAGGTTAGAA TCTGCTTGGG	240
AGATAGCATT CATAAGACAA AAATCCGACA ACATT <u>CAG</u> CC AGAAAATCTG TCATGTACAT	300
CACTTATAGA AGCTTCAGGA GAATATGGAC CTCAGCCTC CCTCGAG	347

(2) INFORMATION FOR SEQ ID NO:1251:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 301 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1251:

GAATTCCGCC	TTCATGGCCT	ACAGCCCTCT	TACTAGGCCA	GCACGCTTTC	GCTTTGCAT	60
TTACAATCAC	ATACCCCCATC	CCCTCCACTT	GAAAAAGAAC	TTTGTGTTTG	TCGTTATCCA	120
AAAATCTCAT	CTTAAATCAA	CCGTCTCGTC	TCCCTGTAGC	TTCATTACCA	TCTCAGAACG	180
AGCAAAGGAG	CCAGCAAAG	CTAAGGTACA	GAAAGTCGCT	TTGGAGGATG	ATGGTGAGTG	240
GTTATACTTA	ATAGAACGCTA	TCATTTATTA	AGCACCTAAT	GTGTGTCGG	AGGGGCTCGA	300
G						301

(2) INFORMATION FOR SEQ ID NO:1252:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1252:

GAATTCCGCC	TTCATGGCCT	TGCATGCCA	CAGTGAGCTG	AGATCGCAGC	ACTGTACTCC	60
ATCCTGGGG	ACAGAGCTAG	ACTCCATCTC	AAAAACGAAA	GTGCCCTGGTC	GTCTTCCCAC	120
ACGACTCCGT	TTCCACTCCC	ATAAAATGCT	ACGTTAGCTG	TTTGAGGGGT	AGATGCCCTT	180
AGACTGCCAA	CTCACAAAGT	TTTATTGGGC	ACCTGTTACC	TGTTCAGCAG	AGATTGTAA	240
AAAAAACAC	ATCAGGTGGC	CTTGTGTTGC	AAGAACATCG	CCTTTGGAAC	CTGTGGAGAA	300
AAGTTAAATA	CTGCCTACTG	TGCAAATGAA	GGGTGGGAGC	TATTGAAGGG	AAGAGATTCA	360
CCCTGAAAAC	CCAAGAATGG	CCAAATCTCG	AG			392

(2) INFORMATION FOR SEQ ID NO:1253:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 610 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1253:

GATTCCGCCCT	TCATGGCCTA	GCTGGTCTCT	GGTTGCAGGA	TCGAATGCC	CCCAGCAGTA	60
TGTGTATATG	CATCAGATAA	GGTAGGGGAC	AACCTTCCTC	ACCCCCATAC	CTGGCCAGCC	120
TGTAATGGGG	AGGAGGCCCT	TCTGTGGTGT	GGTGGGGCTG	GAGATTGGGC	ACGGACAGAG	180
ACATACCTTC	TCTGGAATC	TGAGAGAGAT	ACCTTGAATC	TAGGGGAAAG	GGATTAGGTT	240
TTGAAAATGT	TAGCCATTTC	GTAAAGAGAA	GTCCCTCACC	ATTTCCCTTC	CCATTAGTCC	300
TGGGAAATAG	ATTGGCTAGA	GGCTCAGAGC	CTGGCCCTG	CTGCACCTCC	AGCTTGAGC	360
TACTGGGTG	TTGACATGT	TTGGGGTTT	CCAGGCCCTTA	GCAAGAGAAA	GCCTCCCCAG	420
ATACCAGTCT	AGGGTAGAT	GAAGGGGGCA	GGAGCCCTGA	AGGAAGGATT	TGGGCCGGC	480
CATTCAATCA	TTCAAAACA	CTTATCATCC	CTTATCAGAA	GCCCTGACCT	ATTGAGAGTC	540
AGGCACGTGC	TATTGAGAGT	CAGGCACGTG	CTCATATAAA	GATGAGTTA	ACATGGATCT	600
CCCTCTCGAG						610

(2) INFORMATION FOR SEQ ID NO:1254:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1254:

GAATTCCGCC	TTCATGGCCT	AGAGGATTAA	CACATGGCAT	TCAGTGTCT	GTATAGATCT	60
GCCTACCTTT	GTGAATTCA	CTGTTAACCC	CTCTTCCTT	GAGAGAGCAC	CGGCGATGGT	120
GGTTAACCTCC	TGTGTTTTCT	CTCTCTCCTA	CTGGTTATT	TTGAATTAAG	CACAGACTCG	180
TCAGCTCGGT	TGCTTTATCA	TGAATAATGT	GTTGTGACCTT	GCAGTTCTTC	CACAGTTCA	240
CAAACAAGTG	CTAGCTTCAC	TGACCAAAAA	TTAAGGAAGG	AAAACACAGT	TTTTAAAACG	300
ATCCATCTTT	TAACAGCCGA	AACTCGAG				328

(2) INFORMATION FOR SEQ ID NO:1255:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 488 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1255:

GAATTCCGCC	TTCATGGCCT	ACTAAGAGAA	CAATTAGAAT	ATTGGAAGAT	AAAGGGACAA	60
GTACTGAATT	AGTTAAAGAA	AATCAGAAAC	TTAACGCAGCA	TTTGGAAAGAG	GAAAAGCAGA	120
AAAAACACAG	CTGTCTTAGT	CAAAGGGAGA	CTCTGTTGAC	AGAAGCAAAG	ATGCTAAAGA	180
GAGAACTGGA	GAGAGAACGA	CTAGTAACTA	CGGCTTTAAG	GGGGGAACTC	CAGCAGTTAA	240
GTGGTAGTCA	GTTACATGCC	AAAGTCAGATT	CTCCCAATGT	ATATACTGAA	AAAAGGAAA	300
TAGCAATCTT	ACGGGAAAGA	CTCACTGAGC	TGGAACGGAA	GCTAACCTTC	GAACAGCAGC	360
GTTCTGATTT	GTGGGAAAGA	TTGTATGTTG	AGGCAAAAGA	TCAAAATGGA	AAACAAGGAA	420
CAGATGGAAA	AAAGAAAGGG	GGCAGAGGAA	GCCACAGGGC	TTAAAATAAG	TCAAAGGAAA	480
CACTCGAG						488

(2) INFORMATION FOR SEQ ID NO:1256:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 316 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1256:

GAATTCCGCC	TTCATGGCCT	AGATCCAGAC	ACGGCACTGC	AGCTTTCAGC	TGACTAGCTG	60
TGTGACTTGG	GCAAGCCCCT	TAATCTCTCT	GATCTCGGGC	TCCCTCCTCT	GTAAAATGGA	120
ATTAAGAATA	ACCTCATTGA	GGAGCTTCCCT	GAGGAGGTA	GGAAAGTGCC	TGGCACAGTG	180
CCAGGCTGCT	AAGAGATCAA	TAAATGTCCC	ATCCCCCAGC	CCCACCCAG	TTCTTTCCAG	240
GAATTGAGA	GACTCTCCC	CCTGTGTTTG	AAAGTGGCAA	AGTCTGGCAC	ACTTGGCTCA	300
TAACACATAA	CTCGAG					316

(2) INFORMATION FOR SEQ ID NO:1257:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1257:

GAATTCTGGCC	TTCATGCCTA	AGCTTCCCTC	ACGAGCGCAG	GCGGTGGTCC	CTGAGGCCCG	60
TGGAAGGAGT	CAAACCTTGC	GGAATTTC	AGTTTATCTG	CAGGGCTGTT	GTTCAGCA	120
AGACCCAAAG	CTAGAAAAGG	AGGAGGAAGA	AACTGACCCG	ATCACTGCCA	GAACTCATTG	180
TATTCAAAGA	AGAATAAGCA	AGAAAGAAAA	GAAGGAAGGA	AGAGAGGTAG	ACAGATACAA	240
GATGAAATCC	TGTCAAAAAA	TGAAAGGAAA	ACCAGAAAAT	GAGAGTGAAC	CAAAGCATGA	300
GGAAGAGCCA	AAGCCTGAGG	AAAAGCCAGA	AGAGGAGGAG	CTCGAG		346

(2) INFORMATION FOR SEQ ID NO:1258:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1258:

GAATTCTGGCC	TTCATGGCCT	ACGGCACTTC	AAAAATATAA	ATCAAAGTCC	ATGACTCTAA	60
AAATAACATA	TGCATTGATA	TGCTCGCCCC	TTTGACCCCT	CTCTCAAGAG	AAATTCCCTG	120
CCAAAGTAATC	CACATACATA	AGAAGTGTAA	AAAGTCCCTA	GATTAAAAGA	GCATAAAACT	180
TCATTATGGA	AACACAGTAG	TCCCGGCTAT	TTGGGAGGCT	GAGACAGGAG	GATCACGAGT	240
CCAGGAGTTT	GAGGCTACAG	TGAGCTATGA	TCGCGCCATT	GCACCTCCAGC	CTGGATGACA	300
GAGGAAATAT	TAATTTAGA	CTAATCAGAG	AAAGCCAGGT	CTCGAG		346

(2) INFORMATION FOR SEQ ID NO:1259:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1259:

GAATTCTGGCC	TTCATGGCCT	ACCCCATTCA	TGCAGGAATA	AATCAAGTGA	GCAGTCCAG	60
ACTTTGAT	AATATTTTA	CTATGATGCT	GTGTTATTAA	TATTTCTAA	ATTTCAAAAC	120
AAAAAGTGA	TGTTTGAAT	TGCTGGGTCC	CGATGTTGGT	GGCTGTTGGA	GTGTTGGACC	180
ACTCGCTAGC	AGTGTGTTGA	AGATTATAAT	TAGCTAAAAT	CCAAAACAAA	AAACCAACAA	240
CAAAAATTGT	ATGGTGCAGA	ACATGCACCT	TGACAATGGT	ACTAACTTGT	TATTCTATAG	300
AACACGTTAG	AATAGATCTA	TTTTGCCAG	AGCTTCTCGA	G		341

(2) INFORMATION FOR SEQ ID NO:1260:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 416 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1260:

GAATTCGGCC	TTCATGGCCT	AAAGATAAGG	TGGCTGTAAA	TGCGTGGATT	TATAACCTGAG	60
TTCTCTCATC	TGTTTCACTG	ATCCATGTGT	CTGTTTTAT	GCCAGTACCA	TGCTGTTTG	120
ATNACTATAG	CTTTGTAATA	AATTGAGAAG	TCAGGTTAGTG	TGATNCCTCC	ACCTTCATTTC	180
TTTTGCTCA	GGATNGCTTT	GGNTATTCTAT	AGTCTTGTGG	TTCCATGTAA	ATTTAGGTT	240
TTTTTTTTT	TTTTTACTT	TTCTGTGAAG	AATGTTATTG	GTATTGGAT		300
AAGGATTGTA	TTGAATCTGT	AAATTGCTTT	GGGTAGTCTT	GTCATTTAAA	AATATTGTTA	360
TAGTTCTTCT	AATCCATGAA	CATAGAACAC	CTTCCATT	TTTGGTGTC	CTCGAG	416

(2) INFORMATION FOR SEQ ID NO:1261:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 86 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1261:

GAATTCGGCC	AAAGAGGCCT	AGGCAGACAT	CCATAAACAT	TTTCAAATG	CAGGGTATGT	60
TTTCAGTGT	TAAGGCAACT	GTTCTG				86

(2) INFORMATION FOR SEQ ID NO:1262:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 332 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1262:

GAATTCGGCC	AAAGAGGCCT	ACTTTGGTA	ATAACATTT	AAAGCAGGAA	GTATCTACGG	60
TGTGATCGTG	GTACAGCTCT	TAGTTCAAGT	GTGAAAGACAT	TTGGTTGTCT	TGTATATGAC	120
CTAGAAGAAG	GGGCCTCTGC	TGGAAACAA	TGCTGTTCTT	TTTCTCTTTG	TTTTTGGGA	180
CGGGGTCTTA	CTCTGTTGCC	CAGGCTGCAG	TGCAGTGCCT	CAATTTTCA	GTTCAGTGCA	240
GCCTCGACCT	CTGGGGCTTA	AGCGATCCTC	CTGCCCTGGC	CTCCCCAGTG	ACTGAGACCG	300
CAGGCACACACA	CCACCACACC	CGGCACCTCG	AG			332

(2) INFORMATION FOR SEQ ID NO:1263:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 279 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1263:

GAATTGGGCC	AAAGAGGCCT	AAGCCAGGGT	AGGGCACGCA	GAATGGCAGG	AATGAGTGAC	60
AGTTCTATGC	AAATGGAGTT	ATTATTATTA	TTGTTATTAT	TAATAAGGGC	AGGTTTGTC	120
CAGAACTGCC	CACTATGGCC	TGTGACTTCT	GCGCAGCAAT	TATTTCTCCA	GGGACAGGGC	180
CTGAAGCTAC	CTCACAGTGA	GGCAAAAAAA	TGGGATTCCC	CACTAACCCC	CACACACACC	240
CCCTTCCTAC	CAAACCACAC	ATCTCTCAGT	CCTCTCGAG			279

(2) INFORMATION FOR SEQ ID NO:1264:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 629 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1264:

GAATTGGGCC	AAAGAGGCCT	AGGATCACGG	AGGTGGTGCC	TGTGTGTC	ACAGGAAGCA	60
AAAGCTGATG	CCCAAGTCCC	ACGACATACCA	AGTAAACACTC	AGGTCACACT	CCAGCACGTT	120
TCTCGTATA	GTAAAACAT	GAAGGAACCT	AGTGTACAAG	GAGCTTCTAC	AAAATAGGCA	180
GAAGACAGTA	GGCCAGATGGG	CCAAGGGCCC	CAGCCACCCA	CGCCCCCTCCC	TCTCCTTGAA	240
GACCTTCGGT	TCCAAGCCCC	CCATCAGCAG	GGCTCTGCTC	AGTTCCCTCT	TATGTGTATC	300
ACCACAGGGC	TGCTGGCTCG	TGTACAGTTC	ACCACCAAGAC	CCCACATCAG	GAGTCCGCC	360
AGGGGTGTGG	GGAGCCAGCG	CTGCCCTGGTT	GGCCCTGGAG	CCGTATGGAA	CATGGTGCCT	420
CACAGGCAGT	CTGCTTGGCG	TCTGGATCC	TGGCTGTATC	CCGCTGGAAA	GGATGTGTGT	480
GGGTCTAAGA	TATGTATATA	ATAGAAACAT	TTATTCAAGAA	GCTTTAGTCA	AGACTTCATT	540
TTTAAGTTCA	GAGTAATAAA	CTCATAGTCT	AAATTCCTA	ATTTTCTGT	TTAATTACAA	600
TAAATAAAAT	GAAATCAAT	TTCCCTCGAG				629

(2) INFORMATION FOR SEQ ID NO:1265:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 426 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1265:

GAATTGGGCC	AAAGAGGCCT	AGAGGTGCC	ATTTCAATAA	ATTTTAGCAC	ACTGGATGAT	60
AAAGGAGAAA	TGCTTGGTT	TAAGAGAGGG	AAATCTTGT	TACCAATACT	ATCGGTGAGT	120
TCACCTAATA	CTTCTCGTC	ATCAAGTTCA	TTGGAGTACG	CATCTCTTC	ATCCTCATCT	180
CCCGGTTCA	TGGGTTCACT	TTTGACAGGG	CACTCCCCGT	TTGGGTGTAA	AACGTTGCTT	240
TCTTTGGCC	TTTCACAGTT	GTTCTCTTGG	TCTTGTCTCT	CTGACATCTT	GCTAGACTCA	300
GACGATGAGT	GGCTGAGGG	GACAGAGGTA	ATTGGGGTGT	TCACTACTAA	ACTAGACAGC	360
CCCCCCAGAT	TCACCTCAGC	CTTGGCATT	TGGGTAATCC	CCAGCGGCTG	CTCTGCTGAG	420
CTCGAG						426

(2) INFORMATION FOR SEQ ID NO:1266:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1266:

GAATTCTGGCC	AAAGAGGCCT	ACCGCCCATC	GCGCCGGCGC	GACCCGCAGG	AGCGTAGAGA	60
GCGCGGACT	AGACTGCAGA	GCTCCGGAC	GTGGATCGGA	GCGGGCGCA	TGGGGGAGA	120
GCAGGAGGAG	GAGCGGTTCG	ACGGCATGTT	GCTGGCCATG	GTCAGCAGC	ACGAGGGCGG	180
CGTGCAGGAG	CTTGTGAACA	CCTCTTCAG	CTTCTCTCGA	CGCAAAACAG	ACTTTTCAT	240
TGGAGGAGAA	GAAGGGATGG	CAGAGAACGCT	TATCACACAG	ACTTTCAGCC	ACCACAATCA	300
GCTGGCACAG	AAGACCCGGC	GGGAGAACAG	AGCCGGCAG	GAGCCGAGC	GGCGGGAGAA	360
GGCGGAGCGG	GGGGCCAGAC	TGGCCAAGGA	AGCCAAGTCA	GAGACCTCAG	GGCCCCAGAT	420
CAAGGAGCTA	ACTGATGGAG	AAGACTCGAG				450

(2) INFORMATION FOR SEQ ID NO:1267:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 459 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1267:

GAATTCTGGCC	AAAGAGGCCT	AGCTACTAAG	GCAGGTGCAG	CATCAATGAT	TCACTACATG	60
GTTCTGATAT	CAGCTCGCTT	GGTACTACTC	ACTTTGTGTG	GATGGTACT	TTCCTGGACC	120
CTCGTCAATC	TCTTCGAAG	CCATTTCAGTC	CTCAATCTCC	TTTCCTTGG	CTACCCGTTT	180
GGTGTGTTATG	TTCCTCTTGT	CTGTTTCTAT	CAAGATAGTA	GAGCACATCT	TCTTCTCACA	240
GACTACAAC	ATGTGGTTCA	GCACGAGGCA	GTAGAGGAAA	GTGCCCTGAC	TGTGGGAGGC	300
TTGGCCAAT	CCAAAGACTT	TCTCTCCTTG	TTGCTGGAGT	CGCTAAAAGA	ACAGTTTAAT	360
AATGCCACAC	CCATCCCCAC	CCACAGTTGT	CCCCTATCTC	CAGACCTCAT	TCGCAATGAA	420
GTAGAATGTC	TGAAAGCAGA	TTTCAACCAC	CAAATCGAG			459

(2) INFORMATION FOR SEQ ID NO:1268:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 432 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1268:

GAATTCTGGCC	AAAGAGGCCT	AGAGTTTCA	TAAGCCGGC	TGGTGTAA	AACGTGTTT	60
GGCTTTGTC	ATTTTATGGT	GTGGTGTG	GTATTGGTGG	TCATGTACTG	GCATGTAAGA	120
TTTCTTTCT	CTTCCCTCT	TCTCTCTGCT	TCTACATTCT	GTTCATTGAG	GCTTCCAAC	180
GAATATGAGA	GGAAAGGGAG	ATATGAGGGC	CTAACATGCA	ATGTATCTGC	TGAGCAAAA	240
GATGAAAACA	AAGAAGCAAA	GCCTCGATCC	CTACGCTTCA	CCTGGAGCAT	GAAAACACT	300
AGTTCAATGG	ATCCCCGGGA	CATGATGCGG	GAATCCGCA	AACTGTTGGA	CGCCATAAAC	360
TGCGACTATG	AGCAGAGGGA	GGCCTTCTTG	CTCTTCTGCG	TCCACGGAGA	TGGGCACGCT	420
GGTAACCTCG	AG					432

(2) INFORMATION FOR SEQ ID NO:1269:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 510 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1269:

GAATTCGGCC	AAAGAGGCCT	ACCGTGA	ACTCCAGTGT	GCACCTG	CAC AACCTCCATG	60
GTGCCCTCG	AATTGGTAG	CATGGTGGCC	CTGCTGATGA	GCACCCC	AAAG GGGCCATTGG	120
GGGACCTCTG	AGAACATCTG	CCAGAGCA	GAGAGAAAATG	GTCGATTAAG	GAAAGAAGCA	180
GCAAGATCCA	GGACTTTAA	TCTTAAAAGA	GGAGATGGAGA	CTGGCAGATG	AACATTCTGA	240
GGATAAGGAG	CCTGAGTAAT	TGAGCGATTA	GGGATGGAGA	CATACGATG	AATTCTAGAC	300
CTGCTCGAG	TAGCCATCA	AGCTGTGTCT	GGCTGTGCAC	TATCCAGGCC	TCCACATTCT	360
.GTGACAAACT	AACAGGGCCG	GCTCTGTCA	CTCTGTCTCT	CGCCAGCGGG	TTTTACCC	420
AAGGTGACTC	AGGCCTCTC	TTTGCCCTAG	ATCGTGGGG	TCATCACACG	GCACAACCTC	480
ACCTATGAAT	TTCTGCAGGC	GTAGCTCGAG				510

(2) INFORMATION FOR SEQ ID NO:1270:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 388 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1270:

GAATTCGGCC	AAAGAGGCCT	ACCGATCCCC	TGCAGCTCTT	GCCCCCAGAC	GTTTGGTACC	60
AACTCGAAAC	TGCGCTTGCA	CCGTTAAGG	GTACATGACA	AAACACCTAC	CCACTTCTGT	120
CCACTTTGTG	ACTATAGTGG	CTACCTTCGC	CATGACATCA	CTCGTCATGT	CAACAGCTGC	180
CACCAAGGCA	CCCCACGCC	TT TGCTCC	CAGTGTGAAG	CCCAGTCAG	CTCAGAGACA	240
GCACCTTAAGC	AGCATGCTCT	GC	CCCGACAC	CCCAGCCTG	CACAGCCTGC	300
CCTGCAGAGA	CCACTGAGGG	CCCCTGCAC	TGTTCCCGCT	GTGGGTTGCT	GTGCCCCAGC	360
CCTGCCAGCT	TACGAGGACG	GCCTCGAG				388

(2) INFORMATION FOR SEQ ID NO:1271:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 407 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1271:

GAATTCGGCC	AAAGAGGCCT	ACAGAACTGT	GCCATATTCT	TAAACATCAT	ACAATATTGC	60
CTTTCAGGCA	TGAAAAGCAA	AGGAAATTAT	TTGTTCATTT	GATAGCGCTT	TAGTAATGTA	120
AGTGGATACA	CTTAGGGCTA	GCCCTCTGGC	TTGTTACCAT	GGTAAGCTAG	GGGAATATAG	180
TTGAGGGCTC	TGCAGCAGAG	CTTGGAGAGG	ATCTGGGATG	TTAAATTCTC	AAGTACTTGA	240
ACTTAGCAAC	AGGACTTGCT	CCCATCCACA	CCCTGCTCTC	CACCCCAAGCT	GGAAATAATT	300
AGTGCTGACT	ATGGAGGCAA	AGAGAAACAT	ACTTGTAAGC	TTTTTTGTTT	GGATTTCTT	360
TGGGGTTTCC	TTTTTGCTCTT	TTCTGAACTG	GAGGGTGAAA	TCTCGAG		407

(2) INFORMATION FOR SEQ ID NO:1272:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 321 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1272:

GAATTCTGGCC AAAGAGGCC	ACATAATCA AAAATTCTG TGAAGATGGG	AAATAAGGCC	60
AAGATTGCAA AATGTCTTT	AAAACAAAA ACTGGGCACA TTCTAAAATC AACACAAGAT		120
ACTTGTATTG GGAGTGAAAA	ACTTTGCAA AAGAACCCAG TTGGTTCAAG AACATCACAG		180
GCAAAAGGTG AAAAAAATGG	AATGACTTT TCATCCACTA AGGATTATG TAAACAATGT		240
ATAGATAAAAG ACTGTCCTCA	TATCCAGAAA GAGATTTCAC CTGCAACCCC TAATATGCAG		300
AAGACTAGAA ACACCTCGA G			321

(2) INFORMATION FOR SEQ ID NO:1273:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 205 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1273:

GAATTCTGGCC AAAGAGGCC	ACGAGAACTT CCTTTTCATC TGAATCTTCG TCAAACCTCTC	60
TCTCAGAGCC TTCTCATCT	AAACACTTTT CAGAGCCGTC ATCTTCAAAT TCGGAGTTTT	120
CAGAGTCATT TTCTCTAAC	TCTTGTCAA GAACATTTTC ATGAAGCTCC TTTTCAGAAC	180
CTTCCTCGTC CAAATCTTC	TCGAG	205

(2) INFORMATION FOR SEQ ID NO:1274:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 450 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1274:

GAATTCTGGCC AAAGAGGCC	ACTCAACT GAGGCTGATT GGTCGTTAG GCCAATTGGG	60
TTTGAAAGAA GGATTTCAT	CTGCTGTGAA AAATATTAGT TCGGTTATTC GTATGTTAT	120
ACAGCATGCT CACGATGAAG	ATATACCATG GGGTATACAG TTAGCAGCCC TGTATGCTCT	180
TTGTGACTTG AGTCCCAGCA	ATCCAGCAGA AATTCCAAG ATCCTGGAAG CTTGGCGGAG	240
AGAGGCCCTCC AAAAGCGTTC	CGTCTGCGAT TGTCAGCTGC CTAGAGGAAG TCAGTGCCT	300
GAGCACAGAG GAGCTTGGCT	GACCTGGGAT GCCACTGAGG CTTGAGAAGT GCCTTGACAC	360
ATTTTGAAACA CAAATAGTTT GATCAGCTTT	CAGAATACAA AGGGAGGTTT CAAAACAAAA	420
AGACATAAAA TAGATAAAAG CAGACTCGAG		450

(2) INFORMATION FOR SEQ ID NO:1275:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 255 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1275:

GAATTCCGCC	AAAGAGGCCT	AAAGAACAG	GAAAGGATAA	ATTCACAGAG	GGAAGAGATA	60
GAAAGACAAC	GGAAAATGTT	AGCAAAGCGG	AAACCTCCTG	CCATGGGTCA	GGCCCTCCT	120
GCAACCAATG	AGCAGAAACAA	GCGGAAAGC	AAGACCAATG	GAGCTGAAAA	TGAAACGTTA	180
ACGTTAGCGAG	AATACCATGA	ACAAGAAGAA	ATCTTCAAAC	TCAGATTAGG	TCATCTTAAA	240
AAGGAGGCTC	TCGAG					255

(2) INFORMATION FOR SEQ ID NO:1276:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 367 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1276:

GAATTCCGCC	AAAGAGGCCT	AAACAGATTG	ACCGTGAATG	GTTCACTGTT	GAAACTCTGT	60
GATGGTACT	TGAGAATTAA	TTATATTATT	ATGCCTATAT	TGCAGATATT	TGAAGTTCC	120
CAATAAAATG	TTTAAATAG	TGGCAGGGGG	CAAGAAGAAA	AGGACCACTC	AATTTAAAGA	180
AAAAATAATT	TTAAAGACAA	CAGAGAATAG	GAAGAGGGAA	AAATTGTTGA	GGCAAGAGAA	240
AGGCAGCAGG	TGGGCCATA	TCAAGAGTGA	TTCTTCAGCA	GGTGAGGGT	GATACCACCG	300
CAAAATGAG	GGGTGGCTG	TAAGATAGGG	GGCACAGATG	GCTATAATGC	AAGGGAAGGC	360
GCTCGAG						367

(2) INFORMATION FOR SEQ ID NO:1277:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 624 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1277:

GAATTCCGCC	AAAGAGGCCT	ACTCAGAAAC	AAAGCCAAAA	TTAAGTTCAT	CATTAAAAAG	60
CCCGAAATGT	TTGAGACGGC	GATTAAGGAG	AGCACCTCCT	CTAAGAGCCC	TCCCAGAAAA	120
ATAAAATTCA	CACCCAATGT	TAATACTACT	GCATCAGGTG	TTGAAGACCT	TAACATCATT	180
CAGGTGACAA	TTCCAGATGA	TGATAATGAA	AGACTCTCGA	AAGTTGAAAA	AGCTAGACAG	240
CTAAGAGAAC	AAGTGAATGA	CCTCTTTAGT	CGGAAATTG	GTGAAGCTAT	TGGTATGGGT	300
TTTCCCTGTG	AAAGTCCCTA	CAGGAAAATC	ACAATTAACC	CTGGCTGTG	GGTAGTTGAT	360
GGCATGCC	CGGGGGGTGTC	CTTCAAAGCC	CCCAGCTACC	TGGAAATCAG	CTCCATGAGA	420
AGGATCTTAG	ACTCTGCGA	GTAAATCAA	TTCACGGTCA	TTAGACCTT	TCCAGGACTT	480
GTGATTAATA	ACCAGCTGGT	TGATCAGAGT	GAGTCAGAG	GCCCCGTGAT	ACAAGAATCA	540
GCTGAACCAA	GCCAGTTGGA	AGTCCAGCC	ACAGAAGAAA	TAAGAGAGAC	TGATGGAAGC	600
TCTCAGATCA	AGCAGAACCT	CGAG				624

(2) INFORMATION FOR SEQ ID NO:1278:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 286 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1278:

GAATTCGGCC AAAGAGGCCT ACCCAAATCC CATTAGATA AATTGAGGT	CATTTTCAC	60
ATAGACTTGC AATTTTACA CACCACATT TTTTATAGT AACAGCCTCA	TTTGCTGTA	120
CAATAACTAA TAATACAGTA TTTCATAGGT ACATTGTATG TGCACAGGAA	ATTTTCTTT	180
AAATCTTAAA AGCCTTAAAT AAACGGGATA TTTAAATATT TTAATGTTAC	TACATTAAA	240
AAATAGTGT	TCGAG	286

(2) INFORMATION FOR SEQ ID NO:1279:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 227 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1279:

GAATTCGGCC AAAGAGGCCT ACTCATCATT AGCTGAAAGT TTGAGAGCTG CAGCAGAAC	60
GGCTGTATCA CAGACTGGAT TTAGTTATGA TGAAAATACT GGACTGTATT TTGACCACAG	120
CACTGGTTTC TATTATGATT CTGAAAATCA ACTCTTATTAT GATCCTTCA CTGGAATTAA	180
TTACTATTGT GATGTGGAAA GTGGTCGTTA TCAGTTTCAT TCTCGAG	227

(2) INFORMATION FOR SEQ ID NO:1280:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 486 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1280:

GAATTCGGCC AAAGAGGCCT ACCCGTGCGC TCTACAAATA GTTCCGTGAG AAAGATGGCC	60
GGGAACCTCGA TCCTGCTGGC TGCTGTCTCT ATTCTCTCGG CCTGTCAGCA AAGTTATTT	120
GCTTTGCAAG TTGGAAAGGC AAGATTTAAA TACAAAGTTA CGCCCCCAGC AGTCACTGG	180
TCACCAAGT TTGAGAGAGT ATTCGGGCA CAACAAAAGT GTGTGGAGTT TTATCTATA	240
TTCATAATTA CATTGTGGAT GGCTGGGTGG TATTTCAACC AAGTTTTGC TACTTGTCTG	300
GGTCTGGTGT ACATATATGG CCGTCACCTA TACTTCTGGG GATATTCAAGA AGCTGCTAA	360
AAACGGATCA CCGGTTTCCC ACTGAGTCG GGGATTTGG CCTTGTGAC CCTCCTAGGT	420
GCCCTGGAA TTGCAAACAG CTTCTGGAT GAATATCTGG ACCTCAATAT TGCCAAGAAA	480
CTCGAG	486

(2) INFORMATION FOR SEQ ID NO:1281:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 430 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1281:

GAATTCCGCC	AAAGAGGCCT	AGACAAATTT	CCTTCATTG	CTTCCAGCCG	TGTTATTAA	60
AGTAATTAAC	CTTAATTAT	AAATTTTAT	ATCAAATGC	CTTTAACCT	TTAGAACTGG	120
CAGGAACAGC	CTTATCCCTG	GGCTCTTAAT	AGTTCTCCAT	TTAATCAAA	TTCATCCATC	180
AGGTTCCAGT	GTAAATCAT	CTTTAATTG	GGAGTTACAT	TCTCGTTAAT	AGTTTTATAA	240
TTCCGCTCT	CTAATAGTTT	TTACCACAGG	GATCTCGACT	CCATTTTCC	TGACTCTATT	300
ATTGCTGGCA	TGGGATTTCT	GGGGGATGG	CTTAACGCGG	CCCTGCCCTCT	CTGGCCCTTG	360
CTGGTCGCT	CTTTTGTCT	TGTTGGTCTC	ATTAATTCCCT	GAGAAGAGTT	ATCCTTCCTC	420
CTCACTCGAG						430

(2) INFORMATION FOR SEQ ID NO:1282:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1282:

GAATTCCGCC	AAAGAGGCCT	AATCCCCCTTC	TGCATGTTCC	CTTCCTGCAG	GTCTGATGGG	60
GCCATCCAC	CCTGCTGGGG	AGCACAGCTT	GCCCTCCCTC	CCCTCTTCT	CTTCTGGCGT	120
TGCCCTGCTGG	GTCGCATCGG	AGCAGTCCTC	ATTACTTCCC	ACTTTTGCCC	AACTTCTGCT	180
GCTGTGACCA	GTCGCATACA	CGTGGACACC	GTGGGGACTG	CCCCTCCATA	CAGCTCCTCT	240
GTAAGCTTAG	GACCAAGGCT	GCTCTCCAG	TCTCCCTGGC	CCATGCTGC	CCGGCATCC	300
TCCGCCCCAG	CTACACTGGC	CCCCGATCTC	GAG			333

(2) INFORMATION FOR SEQ ID NO:1283:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1283:

GAATTCCGCC	AAAGAGGCCT	AGGACGTTGG	TGTTGAGGTT	AGCATACTGA	TCAAGGACAG	60
TAAC TACCAT	GGCTCCCGAA	GT TTTGCCAA	AA CCTCGGAT	GC GTGGCCCTT	CTGGCCAGGC	120
GTCTCGAAA	TCATATGGCT	GTAGCATTG	TGCTATCCCT	GGGGGTTGCA	GCTTTGTATA	180
AGTTTCGTGT	GGCTGATCAA	AGAAAGAAGG	CATACGCAGA	TTTCTACAGA	AACTACGATG	240
TCATGAAAGA	TTTGAGGAT	GAGCTCGAG				269

(2) INFORMATION FOR SEQ ID NO:1284:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1284:

GAATTCCGGCC	AAAGAGGCCT	AGAGCGTCAA	TTATATCAAT	TTGTCCCAGA	TTGGGATGAG	60
CTGTGAGGAT	CTAACACAAG	GCTGGAGGAG	GCAGATGAGT	TTTTATCTCT	TCACAGGGCT	120
GGTCGCGGCC	AGGTGTTTC	AGAGGTATCG	CTGGGGGCCA	CAGGGTGTCA	ATCAAACCTGA	180
AAATCCCCGC	TGTCCTTCCT	CTGGTGACTT	TCTGTAGAAC	CTTCATTCCC	ACCAGGCTGC	240
AAGACTTCCC	TTCCAACCTGT	CTTGCCCTCG	ACATGGTGAA	CTCCAAGTGC	ACTTCACCGA	300
ACATTCACCA	GGCATCTTGT	ACCAGAAGGC	AGGCTCGAG			339

(2) INFORMATION FOR SEQ ID NO:1285:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 496 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1285:

GAATTCCGGNN	AAAGAGGNCT	AGAAATCANA	AAGCATGCCT	GTGCAATTGA	ACAAAGGGCT	60
AAGTTCTAAA	AAACATCAGTT	CATCTCCAAG	CGTTGAGACT	TTGCCTGGAG	GAAGAGAATT	120
CACTGGCTCT	CCACCTTCAT	CTGCTACTAA	AAAAGATTCC	TTTTTAGCA	ACATCTCACG	180
TTCTCGCTCA	CACAGAAAA	CTATGGGAG	AAAAGAATCT	GAAGAAGAA	TAGAAGCCCA	240
AATTTCCTTC	CTTCAAGGGC	AGTTGAATGA	CCTGGATGCC	ATGTGCAAAT	ACTGTGCAAA	300
GGTGATGGAC	ACTCATCTTG	TAATATTCA	AGATGTGATA	TTACAAGAAA	ATTTGGAAAA	360
AGAAGATCAA	ATTCTGGTTT	CCCTGGCAGG	ATTAAAACAG	ATCAAAGACA	TTCTAAAAGG	420
TTCCCTGGCT	TTTAACCAGA	GCCAGCTAGA	GGCCGAAGAG	AAAGAACAGA	TCACCATTCG	480
GGACAACCTCA	CTCGAG					496

(2) INFORMATION FOR SEQ ID NO:1286:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1286:

GAATTCCGGCC	TTCATGGCCT	AGCAGAACGCT	AAGAACTGTC	TTAAAATAAA	TTTTAAAAGT	60
AAATAAGTTA	TAATGCATAG	GTTCAGCCAT	TCATTAATGA	TTTCAGTTT	CAAGTGTAAA	120
TATTTCTTAA	TGATTACTAG	TTGATCAGTG	TAATGAAAC	ATTGAGTAGA	CAAACCTAAAT	180
GCACAGTATA	AATGTGACAT	AAACACTGGT	TTCAATTGT	CTCAAGAAAA	AAGAAAAAAA	240
AAAGGCCCT	GCAATGGCAA	AGAGTGGCCA	CTATTGGGT	AATTCAAACA	ACCCACTGTA	300
ATACAGAAA	GCACCTCGAG					319

(2) INFORMATION FOR SEQ ID NO:1287:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 261 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:

AAAATGGAGA AGTTACTGGC TGGAGAACAT GGGACAAAGTG AACGAAGGAA AAGCATCAAA	60
ACCTACAGAG AAATTGTTCA AGAAAAAGAG CGGAGAGAGA GAGAGCTGCA TGAAGCATAT	120
AAGAACGCTC GGTCCCAGGA GGAGGCAGAG GGGATCCTTC AACAGTACAT TGAGAGGTTTC	180
ACCATCACTG AGGCTGTTCT CGAACGCTTG GAGATGCCAA AAATTCTGGA AAGAACCCAT	240
TCAACAGAG CAAAACCTCGA G	261

(2) INFORMATION FOR SEQ ID NO:1288:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 275 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1288:

GAATTCGGCC TTCATGGCCT ACTCTGAAGA TATTTATAGC TCTCTTAGAG GTGTCACTGA	60
AGCAATCCAG AATTCAGCT TCCGTAGCCA AGAAGATATG AATGAGCCAT TGAAAAGGGA	120
TTCTAAAAAA GATGATGGCG ATTCAATGTG TGGTGGTCCT GGGATCTCTG ACCCAAGAGC	180
AGGAGGTGAT GCTACTGACT CAAGTCAAAC AGCTCTTGAT AATAAAGCTT CATTGCTCCA	240
TTCAATGCCCT ACTCACTCCT CTCCACGCTC TCGAG	275

(2) INFORMATION FOR SEQ ID NO:1289:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 139 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1289:

GCGATTGAAT TCTAGACCTG CCTCGAGAAC GCCGGGGTCC ATCATTAGCA GTCCTCACAT	60
GCGCCGGAGA GCTACATCAA CACGAGAGTG TCCATCTCGC CCACACCAGA CTATGCCAA	120
CTCATCTTCC CCCCTCGAG	139

(2) INFORMATION FOR SEQ ID NO:1290:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 358 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1290:

GAATTCCGCC AAAGAGGCCT AATAAGTTG ATTAAGCTTG CAGACATTAA GCTTTCTAG	60
CAGCTGGTGT GTGCAGAGGC AGATGGCTCT CTGGTTCAG GACTACCTAC AATATAGAGA	120
AATTTCTCT ATTCCAGTCA ATTCCATCATG GGTAAGAATA GTCCATTGGTAGT	180
TTCATCGTT ACAATCTACC TATGGGTAGT GGCTGGTAAC TGCTGGATG TTGACATTT	240
ACAAAGGCCA TACTTAACCA CACTTTTATT TCTATTTGTG CGATGCCCTTG GAGTAGTTTC	300
CCAAAGTGAT TTTGAGTGAGT GAAGAAATGG TATTGTCCCC AACAGCTGG TGGTCGAG	358

(2) INFORMATION FOR SEQ ID NO:1291:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1291:

GAATTCCGCC TTCATGGCCT AGAGGATCCT AATGAAATAC CTGAAACATA TATTGGCATT	60
TATCAATGGC TCAAATCTTC ATTATCTCT GGCCTTAACC CTGGCTCCTG AGGCTGCGGC	120
CAGCAGAGCC CAGGTCGAG	139

(2) INFORMATION FOR SEQ ID NO:1292:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 442 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1292:

GAATTCCGCC TTCATGGCCT ACTATCAGGA AGTGATTGCTT GGAGAGGGGA TTTTACCTGA	60
TGGTGGAGAA TACAAACCCC' CTCTGTGATT TTTGAAAAGC AGAGACTATT ACACGGATT	120
CCTAATTACA CTGGCTGTGC CCTCGGCAGT GGCACTGGTC CTTTTCTAA TACTTGCTTA	180
TATCATGTGC TGCCGACGGG AAGGGCTCAT CCAACTGGTC CATCACAGTG CTATTCAAA	240
ATCTACCAAG GAGCTTCGAG ACATGTCAA GAATAGAGAG ATAGCATGGC CCCTGTCAAC	300
GCTTCCGTG TTCCACCTTG TGACTGGGA AATCATACCT CCTTACACAA CAGACAACTA	360
TGATAGCACA AACATGCCAT TGATGCAAAC GCAGCAGAAC TTGCCACATC AGACTCAGAT	420
TCCCCAACAG CAGACTCTCG AG	442

(2) INFORMATION FOR SEQ ID NO:1293:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1293:

GAATTCTGGCC TTCATGGCCT ACATGAATTA TCTGTGAGTT GGTTAAAGGT AATATTGGTT	60
AGCATCAAGA ATAGGAAGCT ATTAGTTTC AATCAAGAAT AAGCTCAAAT TTGGTCTAAA	120
TCTTAATTTC AAGCTGGTA ATCATTGATT TACAATTTC TTCTTGGTGT CACATTTCTT	180
CCAAAACAAT AATCAATGAA GCCTTCCCAC CCTGTGCCT TTGCTCTCGA G	231

(2) INFORMATION FOR SEQ ID NO:1294:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 355 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1294:

GAATTCTGGCC TTCATGGCCT ACTCTGCTAA CTTCCTGCCT CTATGTCTTT CCCCACCTAC	60
CTCCTCTCCC CATTCACACT CCTGCGTGAC CTCATCCATT TACCTGCCTT CAATTAGCAT	120
CCATACGTTTC CTCCCTTCTC AATAATAAGTC CCCAGCTGAG ACTCTGTTTC TGAAATCCAG	180
ATTTTTATTT CCAATTCTAC TGACACAAACT CAGTCTAAAG CCAAGCCCAT TATCTTCTCC	240
TATAAGCTGT CATCTTTCTC TTCTCTTCTT TCTTTTTTTT TTTTTAACAG AGGTTAATGG	300
CATTCAACAT CTACCCAAGC ACCAGGGAGT TAGATTAGA ACGGATGGAC TCGAG	355

(2) INFORMATION FOR SEQ ID NO:1295:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 429 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1295:

GAATTCTGGCC TTCATGGCCT AGCCTAACTG TTATTTGCAT CTTACAGCTC AGAAAACAAG	60
CATGGTGAGA TAAGGAAACT TTACTAAGGT CACATAACTA GTAAGTGGTG GAGCCAGCGT	120
TGAAACTCTAG GAACTCTGTA CACAACGGGG AGGGAAAGGCT AATATTTGAA ATGATAGACT	180
CAACATTCAA TATTCAGTA TCGATGAGCT CTAAGTTGAT AGAGCTATGT GTAAAAACCC	240
TGCATTTAAT ATTAAGAAAT CATTGGCAGA AGAGTAAGAG AGGGCTTGG TCAACTAAGC	300
TGAGTGCTA AGAAAACTCT GGCAATTGAG GTGTCTTAG CTCCAGATGC TTTGGTAGGG	360
CAGAGTGTAT CCATGGAGGT ACCATGAGCT ACCATGGAGG TAGCTCAGAG AGGAAAGGGA	420
AACCTCGAG	429

(2) INFORMATION FOR SEQ ID NO:1296:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 406 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1296:

CTCGAGCTGT TCTGTAAATA CCTGGTGCTA ACATCCCATG CCGCTCCCTC CTCACGATCC	60
ACCCACCGCC CTGAGGGCCC GTCCCTAGGAA TGGATGTGGG GATGGTCGCT TTGTAATGTG	120

CTGGTTCTCT	TTTTTTTTTC	TTTCCCTCT	ATGGCCCTTA	AGACTTCAT	TTTGTTCAGA	180
ACCATGCTGG	GCTAGCTAA	GGGTGGGGAG	AGGGAAGATG	GGCCCCACCA	CGCTCTCAAG	240
AGAACGCACC	TGCAATAAAA	CAGTCTTGTG	GGCCAGCTGC	CCAGGGGACG	GCAGCTACAG	300
CAGCCTCTGC	GTCCTGGTCC	GCCAGCACCT	CCCGCTTCTC	CGTGGTGACT	TGGGCCGCT	360
TCCTCACATC	TGTGCTCCAT	GCCCCTAGGC	CTCTTTGCC	GAATTG		406

(2) INFORMATION FOR SEQ ID NO:1297:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 639 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1297:

GAATTCCGGCC	AAAGAGGGCT	ACGGCCGCCA	ACACGCCCTGG	GTAATTTTT	GTATTTTAG	60
TAGAGACGGG	GTTCACCGT	GTTAGCCAGG	GTGGTCTTGA	TCTCATGATC	TCTGTGATCCA	120
CCTGCCTCGG	CCTCCCAAAG	TGCTGCGATT	ACAGGCAAGT	GCCACCGCAC	CCGGTGACAC	180
TGTTGCTCTT	AAGCAGAACG	AAAATCAAAA	GGCAGACAGG	ACTCAAAGAA	TGGTTCTAAA	240
CCTAAAAGTA	CTAAGGCCTC	TAGGAACAT	GATGATGACA	ATTACTGTG	AATTTATATC	300
ATGCTGAATT	TTAGTAAAC	CCCTGGCAAA	CCACTCTCAC	TTGGTGACAC	TCCGTCACAC	360
GCACGGGGCC	ACAGCAACT	GGATCACTAC	AACCTTCTG	GACAGCTTG	CTACCTGTAC	420
ACTCTTATGG	ACTCAATTCC	ACTCTAACATG	ATTCTGCTCA	GAGGTAAATG	GACATGTGAA	480
CACAGATTCA	CAGGCAAAAGA	TGTTTATATG	CACCACTGTC	TTGATGTTCA	AGAAAATGGA	540
ACTGGTTACA	TGCATGTGAT	TAGCTATATA	ATGTAACATG	ATTCAAGCCC	TAAAAAATGTA	600
AGGCCTCTT	GGCCGATGTA	ATTCTAGAC	TGCCTCGAG			639

(2) INFORMATION FOR SEQ ID NO:1298:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 606 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1298:

GCGATTGAAT	TCTAGACCTG	CCTCGAGTCC	AACGGCATCG	ACGTGTACCC	CCAGAAGGAA	60
TTTGATGAGG	ACTCGGAGGA	CCGGCTGGTG	AACGAGAACT	TCCGGAGAT	GATCCCATT	120
GCTGTGTTGG	GCAGTGACCA	CGAGTACCAAG	GTCAACGGCA	AGAGGATCCT	TGGGAGGAAG	180
ACCAACTGGG	GTACCATCGA	AGTGTAAAC	ACCAACACT	GTGAGTTGC	CTACCTGCGG	240
GACCTTCTCA	TCAGGACGCA	CATGCGAAC	ATCAAGGACA	TCACCGACAG	CATCCACTTC	300
GAGGCGTACC	GTGTAAGCG	CCTCAACCGAG	GGCAGCAGCG	CCATGGCCAA	CGGCGTGGAG	360
GAGAAGGGAGC	CAGAACCCCC	GGAGATGTAG	ACGCCACCC	CCCCACCCCC	GGGATCCTGC	420
CCCCAAGTC	TTTCCGCTCC	CCCCCCAGGC	CCTCCTCCCA	CGGAGTGGCA	AGACTGGCTG	480
AGGCCTACT	CTCTAAACG	GTGGGGGAGG	GGGGAGCGCC	CTGAGAGAGG	CATTCTACTA	540
ACCCCACCCC	AATCACCCCT	ATTTTACTC	TTTCTACTT	CGGAATTGGA	AAGAACGACA	600
CTCGAG						606

(2) INFORMATION FOR SEQ ID NO:1299:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1299:

GAATTCGGCC	AAAGAGGCCT	AGGAGTGTATG	TTCATTTGG	GATTTGCAGG	GTGCATTGGA	60
GCGCTACGGG	AAAACACTTT	CCTTCTCAAG	TTTTTTCTG	TGTTCTGGG	AATTATTTTC	120
TTCCTGGAGC	TCACTGCCGG	AGTCTAGCA	TTTGTGTTCA	AAGACTGGAT	CAAAGACCAG	180
CTGTATTCT	TTATAAACAA	CAACATCAGA	GCATATCGGG	ATGACATTGA	TTTCCAAAAC	240
CTCATAGACT	TCACCCAGGG	ACTCGAG				267

(2) INFORMATION FOR SEQ ID NO:1300:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 414 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1300:

GAATTCGGCC	AAAGAGGCCT	AGTGTGTTCC	AATCAAGTTA	ATAAAATATCT	GTCTTCGTAC	60
CAGGAAAAAT	TCAATATTAT	TTTAAAGGAG	AAAAAATAAG	AATGTATTG	TAAAATGCTT	120
TCTCTCACTT	CGAAATATCT	TAGTGAACAA	GAACACTGAC	ATAGAATTAA	AATTCTATGA	180
ACAGCCATAA	CCAAAGGAAT	CTCATTTAGT	GAATATTAT	GTCCAGTAAC	TGCAACCCAC	240
ACTTAGAGCT	ATCCTTTGC	TTAAAAACAA	AAATTGGGC	CTTAAGAAGT	GATTAATATC	300
AGGCAAAAT	AAATTATACT	TTTGTGTTATT	TATTCAAGGC	CTTGCTCTGC	TGCCCAGGCT	360
GGACTGCAGT	AGTGAATCA	TAGCTCACTG	CATCCTGAA	TTCTCTGGCT	CGAG	414

(2) INFORMATION FOR SEQ ID NO:1301:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1301:

GAATTCGGCC	AAAGAGGCCT	AGTGAAGTTT	ACTGTGATT	TATGGAACAA	TTTGGACAAG	60
AAGAGTCTTT	AGACAGCTTT	ACGTCCAACA	ATGGACCAT	TCAGTATTAC	TTGGGTGGTC	120
ATTCCAGTCA	ACCCATGGAA	AATTCTGGAT	TTCGTGAAGA	TATTCAAGTA	CCTCCTGGAA	180
ATGGCAACAT	TGGGAATATG	CAGGTGGTTG	CAGTTGAAGG	AAAAGGTGAA	GTCAAGCATG	240
GAGGAGAAGA	TGGCAGGAAT	AACAGGGAG	CACCAAC	CGAG		284

(2) INFORMATION FOR SEQ ID NO:1302:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1302:

GAATTGGATT GAATTCTAGA CCTGCCTCGA GCCTGTGCGA GAAAAGTGA CGCCAGTCTA	60
AAAAAAAAAA AAAATCTAA AAGAAGCCAA AAATCCACTT GTAATGAGAT TCATAGACCC	120
CTTATTTATA CAACTCACAT ATTTGAATT TACATATTG AATTTCCTTT TAAAGGGGTG	180
GAGGGGTCTC GAG	193

(2) INFORMATION FOR SEQ ID NO:1303:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1303:

-GAATTGGGCC TTCATGGCCT AGGGATACAG CAACTATTT ATCAAATTGTT TGTAATTCCC	60
TTTAAGGTAA CATTTAAAT GAAATGTATT ATATTTAAAT CTATCCTTT CCTTTGTTTT	120
TGTTCTTATT ATCTCTCTG ATATATAACC AAAATGAA AAAATCTGTA CACTTGGTGT	180
TTGACATTACCA TAAGCACCTA GTTAATTAA TCTTTGTAAC ACTTTGGATG GTTAACCTAA	240
CCTTTACTCA AGTTGGTTTT TGTTTGTTG AAAATGACTT ACTTGGTGA ACCACTACTC	300
TCGAG	305

(2) INFORMATION FOR SEQ ID NO:1304:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 416 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1304:

GCAGCGAGCA GTATACCAGC AGCAGCAAGC GAAAGGAAGA GTTTGCTGAT ATGTCAAAAG	60
TTCATTCAGT GGGAAAGCAAT GGGCTTCTGG ACTTTGATTG AGAATATCAG GAGCTCTGGG	120
ATTGGCTGAT TGACATGGAG TCCCTTGTGA TGGACAGCCA CGACCTGATG ATGTCAAGAGG	180
AGCAGCAGCA GCATCTTAC AAGCGATACA GTGTGAAAT GTCCATCAGA CACCTGAAAAA	240
AGACGGAGCT GCTTAGTAAG GTTGAAGCTT TGAAGAAAGG TGGCGTTTTA CTACCAAATG	300
ATCTCTTGA AAAAGTCGAT TCAATTAAATG AAAAATGGGA ACTGTTGGG GTATTGAT	360
TTTTTATTACT GTTTGAGGT TATGTGTACA TTTTTGCGT AGTGAAGTCA CTCGAG	416

(2) INFORMATION FOR SEQ ID NO:1305:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 345 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1305:

GAATTCTGGCC	TTCATGGCCT	ACCAATGTCC	TGCACATTGC	CAGACTTCCA	AACAGGTACA	60
AGTTCCCATC	TGTTCTGCAA	TAGATGAAAG	CAAGTCACAG	TTCCCAGGGC	TACCAGTGTA	120
ATTTCTCAAG	TGGCCAAGTT	ACCTGGCTTC	ATGGCTTGAC	CTGCTGTGTT	CTTTGGAAA	180
TGGAGAATGC	CTGAGGGCTG	TCTCTAACAG	AAGGGTATGT	GGCAGTATAAT	TACAGAATTT	240
ACAAGAAGCA	AGGTGCAAAT	GAATTACATT	GAATTTCATT	GTTAAGAAGA	GATGATTAA	300
AATTTGGTAT	TTAACAAACAT	AAACGACTTT	GGGGCCCAAC	TCGAG		345

(2) INFORMATION FOR SEQ ID NO:1306:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 209 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1306:

GATTTCTCTC	AGCTTTTATT	TGTTTGAAAA	ATTTTTAAT	TCACCTTCTT	TTTGAAAGA	60
TTTTTACTGA	TTATAGAATT	CTAAGTAGTT	TATTCTCTA	GGACTGTGAA	CATATAATTC	120
TACTGTCTTC	TGGCATTTAT	AGTTCTTTA	TTTATTTTT	TATTGAAAAA	CATTTTTTT	180
GAGACATGGT	CTCACTCAGA	ATACTCGAG				209

(2) INFORMATION FOR SEQ ID NO:1307:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 251 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1307:

GAATTCTGGCC	TTCATGGCCT	AAGCTTTGCG	TTTTTTAATA	ACTTGTATAG	CTAAAAACTT	60
GACGGTGAAA	AGCTCTCAGA	TCAAAGCTGA	TCCTTCTGTC	AGTAATGATT	CTAAAAATAAA	120
GCAAGATTTT	AATGGGAAAT	ATATTTTATT	TCATTCTTAT	CTCAAACCTA	GGTACTGTGG	180
TCGTTTGAG	TTCATTCGA	GGCATTTCA	ATGTGCCTCA	GGCCACATCC	AACCTCTCCC	240
CAGAACTCGA	G					251

(2) INFORMATION FOR SEQ ID NO:1308:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 317 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1308:

GAATTCTGGCC	TTCATGGCCT	ACCTGACTCT	TGAGATACTG	ACTGGAAGAT	AGACTGTTTT	60
GTTCCACCTG	ATTGTATGGG	AGAAATTTTT	GACCTTAGAA	AGTGAATG	AGGTTGCTAT	120
GGAAACTGGT	AATTCTGCTG	CCACTCATAA	ACTCTTCTGC	ACGTGATGGT	CTTTTAAGCC	180
GTCCTATTTT	TACTCAGGAG	CCACATGATG	TCATTTTC	TTGGATTTA	TCAAATCTG	240
AGTCATCCT	GAATTGTGCT	GCTAACGGTT	ACCCCTCGCC	TCATTATAGG	TGGAAGCAA	300

ATGGCACAGA ACTCGAG

317

(2) INFORMATION FOR SEQ ID NO:1309:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 412 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1309:

GAATTCCGCC	TTCATGGCCT	ACACAGTATC	ACTAAAAGAT	TTTCATTCCG	AAGATCACAT	60
TAGAAAAAG	ACTGAGGAAG	TGGTTCTGAA	AGATGGAAGA	ATTGAAAGAC	TAAAGTTAGA	120
GCTTGAAAG	AAAGATGCTG	AAMTCGAGAA	GCTGAAAAAT	CTAACATCCTC	AATGGGAGGC	180
AAAGTATAAG	GAAGTAAAGG	CAAGAAATGC	ACAATTATTG	AAAATGCTTC	AGGAAGGTGA	240
AATGAAAGAT	AAGGCAGAAA	TACTTCTGCA	AGTTGATGAA	TCACAAAGTA	TCAAGAATGA	300
GCTCACTATT	CAGGTGACTT	CACTTCATGC	TGCATTAGAA	CAAGAAAGAT	CTAAAGTGAA	360
AGTATTACAA	GCAGAGTTAG	CCAAATACCA	GGGTGGCAGA	AAAGGGCTCG	AG	412

(2) INFORMATION FOR SEQ ID NO:1310:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1310:

CTCGAGTGTG	GTGGTATGTG	AATTATATCT	CAGTAAAGCC	ATCACAGGGC	AGAAGAAAAA	60
GAGAAAAGAA	AAAGAAAACC	TTCGAGGAAG	TCCAACAAAA	AACTGAGGA	AGAAAAGGTG	120
AGAGCCTGAG	GATCCACACA	GCAGGTACAG	CAACTAACTG	ACAGAAATTC	TAGAGCCAGA	180
CAACAATGAC	TAATCAAAC	AACCTCAAAA	CAAATGATTA	GGCCATGAAG	GCCGAATT	239

(2) INFORMATION FOR SEQ ID NO:1311:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1311:

GAATTCCGCC	TTCATGGCCT	ACAACGAAGC	ACAAGGAGAA	AATTATGATG	AAATGGAGCA	60
AAACAGGTAA	GAGAGAGGGT	CAGAGAAGTG	AATGTGGGCC	TTGATGCTGA	AGCCATTGGA	120
GGGTTTCTG	TTGAGGAGGA	GTATGGAAT	GATATGATCT	GACTTATGTT	TCAAAAGTG	180
TACTCTAGCT	GCTTTGTGGG	AAATATNGGA	GGGAGAGAGC	AGAATCAAGG	AGGCCATT	240
AAATGCCATT	GCAAATATCC	AAGAGAGGCC	GACTCGAG			278

(2) INFORMATION FOR SEQ ID NO:1312:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 247 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1312:

GAATTCCGCT TCATGGCCTA ATCACATATG GTAGAGATT TATACAGAA TTTAAAATGT	60
GGCATTAATAA AACTGTTC CATGGAAAC TGCTTCAGA GATTTTAAT AAGTGTTC	120
CTCACATAGG AACCTAACGT TCTCAGAGCT TTTAATAGGC TTCTAACAGG CTAATAGTCA	180
AGGCCGTGAC CCAAGAAGGG ATATAGTTCA CAGTGTTC CACAATATT TCACCCAGA	240
GCTCGAG	247

(2) INFORMATION FOR SEQ ID NO:1313:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 311 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1313:

GAATTCCGCC TTCACTGGCCT AGGGTCTTAG CTGGCTCT CCTTGCAAAG TTATTCTAG	60
TTAATTCTATT ATGCAGAAGG TATAGGGTT AGTCCTTGCT ATATTATGCT TGTTATAAT	120
TTTCATCTT CCCCTGCG TACTATATCT ATTGCGCCAG GTTCCCTCG TCTCAAAAAAA	180
AAAGAAGTTA CTTCCAAGAC AGACTTTAA GATGTAACCA GCACAAAGCA ATGTCAGGGA	240
GGAGTGATAC ATGACAATAA ATGAGTCAGA TGACCAAGAA GGCCCCAGAA CCCATGCC	300
CAGGACTCGA G	311

(2) INFORMATION FOR SEQ ID NO:1314:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 261 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1314:

GGGGACCTGC AAACGCCGC GATACTGTCA GAGATGGAGA AAGGTATGAC AGGAAGAGCA	60
GATCAAGAAG ACAGGAACAG CACGAGGCAC TGGGAGCTGC AAACGCCGC GATACTGTCA	120
GAGATGGAGA AAGGTATGAC AGGAAGAGCA GATCAAGAAG ACAGGAACAG CACGAGGCAC	180
TGGGAGNTGC AAACGCCGC GATACTGTCA GAGATGGAGA AAGGTATGAC AGGAAGAGCA	240
GATCAAGAAG ACAGAACTCGA G	261

(2) INFORMATION FOR SEQ ID NO:1315:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 326 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1315:

CTCGACTTGC ACGAGGAGTG GCAGGGATTAT CTGCAGAGGG ACCATTGGGA CAGCTAGTAA	60
GGCCAGGTGC TCTTTAGGCA CCCCTTCTTC CACCAAGCTTC AGGCCTGTCA CAGCATCAGC	120
TGCTGAGAAG CCAATCTTTG ACCTTAGAAT CAGAAGGCAA AAGGCCAGAA CTGCTGGCAT	180
TTTTATAATT GAGAATAGCA GCTTGTAAAGT GTCTGTGATC CCTTGGGTCT CTTCTTTAC	240
TATTGACGCT TCTCTGTTT CTTTTTCAG AAGGGCTACT AATGTTGTTG TTATTAAGAA	300
TACAGTAGGC CTCTTGGCC GAATTC	326

(2) INFORMATION FOR SEQ ID NO:1316:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1316:

GAATTCGGCC TTCATGGCCT AACGTCACTC ACTGTCCTTC TTAGTATCTA ATTCCTCTTC	60
ACCTAACAGA ACAGCAAATT CTTTGAGTTT AGGATCCTTA ATGCAGTGTAAATATTGCCT	120
TTTATCCTTC TTCTCAGCTA TGGTCTCAAT TCAAATCATG AGGACCATTG TGGTGGCTCC	180
CGAATGGCCT CACTGTTCCA CTCCCTCCCC ACTGCGCTAC AGTCCATTCC CCAGTGTCC	240
CGAG	244

(2) INFORMATION FOR SEQ ID NO:1317:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1317:

GAATTCGGCC TTCATGGCCT AGAAAGGTTT GCCTGGTAAG ACTGAAGTGT TCATAGTTCT	60
TTAAATAAGC TACAATATTCTTAATCTG TACCCCTGAT TTTACTGTTT TCTTGGCCCTA	120
GAATGCTGTT TCTATCATTC TTCATCGAG	149

(2) INFORMATION FOR SEQ ID NO:1318:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1318:

GAATTCCGGCC	TTCATGGCCT	AGTCAGCAAA	GCAAGGGGAG	GCAGACCACA	GGCCTCATGA	60
CTCTCACTGG	AGTGCAATGG	GACCCCCATG	GGGTGAAAGC	AGAGGAGTGA	GCTGCTCTGA	120
TGTGAGCACT	CACTCTGCTT	GCCATATACT	GAGTAGACAG	GAGAGACCAG	GGCAGAAGTA	180
AGAACAGCCA	TCAGAGGCTC	CTCAGGAACC	CGAGTGGGAG	ATGGTGGTGG	AACAGGGTTG	240
TAGTAGTGGC	AGTAGTGAAA	AAATGATCAG	TTTTGGAAA	TATTTGGAAG	GTCGAACCTCG	300
AG						302

(2) INFORMATION FOR SEQ ID NO:1319:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 219 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1319:

GAATTCCGGCC	TTCATGGCCT	AAGAAAAAAA	GAAAGAAAAGA	AAAAAGAAAAG	TACAAGTTA	60
TAAAGTATTA	AGTGAAAAAA	TTCGCATTCT	GGCTGATTT	AAGCCATTAA	AAATTATAT	120
AAAACAACCT	TCCATAAAAA	TTTGACAGGT	GCCCAGATGT	TGCTTCTCC	ATTTATTTT	180
TGTTTTTTT	TAATCACAGT	GGTCTTGAGG	CAGGTCGAG			219

(2) INFORMATION FOR SEQ ID NO:1320:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 361 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1320:

GAATTCCGGCC	TTCATGGCCT	ACTGAGTTAG	TTTTTATTAA	TGCAGTTTT	ACAGATGAGG	60
CTACTGTGAC	ACAGAGGGCA	AAACTTGTC	AAAGACATGC	AGCAAACAGG	ACAGACAAAT	120
CTGAAGCCAG	GGTGTCAAG	CTCAGAATCC	ACACCTATAA	CCGCTGTACC	CCACTGCTTT	180
TGCCAGCAGG	AGCTCAGTA	CTTAGGACAG	ACAATCAGTA	CAGTGCTAGG	CTCACTGAAG	240
GTGTTGAACA	AATGCTGTGTT	CACTTTTT	GTTCCTAAAA	GTACCAAGAA	AGGCCAGAAG	300
AAAAAACTAC	AAGACTTAGA	AACTACAATG	GATCAGATCA	CTCAGTAGCA	CCTCACTCGA	360
G						361

(2) INFORMATION FOR SEQ ID NO:1321:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 66 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1321:

GAATTCAAAC	GAAAGCCAGC	TGAGAAATACA	GGAAACATGT	TTCCAGCCAA	ACCCAAAACA	60
CTCGAG						66

(2) INFORMATION FOR SEQ ID NO:1322:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1322:

GATTGAATTC TAGACCTGCA GCTACAGAAAG TCAAGATTCC AAAACCAAGA GGCAGACCCA	60
AAATGGTAAA ACAGCCCTGT CCTTCAGAGA GTGACATCAT TACTGAAGAG GACAAAAGTA	120
AGAAAAAGGG GCAAGAGGAA AAACAACCTA AAAAGCAGCC TAAGAAGGAT GAAGAGGGCC	180
AGAAGGAAGA AGATAAGCCA AGAAAAAGAGC CGGATAAAAAA AGAGCGGAAG AAAGAAGTTG	240
AATCAAAAAG GAAAAATTAA GCTAAAACAG GGGTTACTTC AACCTCCGAT TCTGAAGAAG	300
AAGGAGACGA TCTCCAG	317

(2) INFORMATION FOR SEQ ID NO:1323:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 106 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1323:

GAATTCCGCC TTCATGGCCT ACTGTAAGGA GGAGATGAAA GAATTAGTAG AAAAGGTTTT	60
AAAAACACTT ATTATAACTA TATTCCATAT GCTGAAGGGC CTCGAG	106

(2) INFORMATION FOR SEQ ID NO:1324:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1324:

GAATTCCGCC TTCATGGCCT ACTCCTTTAT TTCCCTTGTC TGTAGAATAA AGTCTTAGAA	60
TAATATTCCCT GTTAAGGCC C TGCTTATCCC AATACCGTAT CCATACTGAA CTTTCAGTTTC	120
TTTATATGCA CTCTACTCTC TGTCTTTCAAG ATTTTGCAAG GTATTCCCTT AGAACACTCT	180
TTCTCTTCCA TCTTATGCC TACTCTTGG GTTTCTGTTT AAACATTACA TTTCTCGGTG	240
GGGGGGCTTA TCTCGAG	257

(2) INFORMATION FOR SEQ ID NO:1325:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 78 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1325:

CTCGAGACCG CAAGCACTTC CCACCTCATC CTTATTCCT CTATCCCTT TCATTGTTT	60
TTTCTCCTTT TTAAATTTC	78

(2) INFORMATION FOR SEQ ID NO:1326:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1326:

GAATTCCGCC TTCATGGCCT AGAATTGTCC TCTGTGGAAG GGACTTCTT TTGGCCCTAG	60
GCCCCCTTCTT GCCCCCTGTCG TCAGCAGAGA GATGGAAAAC TTGATGACTA GCTCCACCT	120
ACCGCCCCCTT TTGCAAGATG AAGACGGTTC CAAGGGAGGT AATGATCTGG CTACCACTGG	180
GTAAATCAC CCAGAGGTTC CATACTAGT TGCGGCCACA TCATCCACCA ACAATCCAGA	240
ATTTGTGGAG GATCTCTCTC AAGTCAGTT GCTTCAGAGT GAGTCTCAA ATGCAGCAGA	300
AGGCACCTCG AG	312

(2) INFORMATION FOR SEQ ID NO:1327:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 411 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1327:

GCGATTGATT CTAGACCTGC CTCTCCTTCA AGCATTGCG CAAACAATTG TACTGTGAAT	60
ACGTCATCAA TTGCAACGTC TTCAATGAAG GGTCTTACGA CTACAGGAAA CTCGTCTCTT	120
AATAGCACAT CTAACACTAA AGTATCAGCA GTGCCTACAA ATATGGCTGC CAAGAAAACA	180
TCTACCCCCA AAATAAATTG TTGTTGGTGGT ATAAGCTGC AGTCAACAGG AAATAAAGCA	240
GAAGACACAA AAGGAACCGA ATGTGTTAAA AGTACTCCTG TCACATTCTGC TGTGCAGATT	300
CCTGAAGTAA AGCAAGACAC AGTGTCAAGAA CCAGTCACAC CTGCATCTCT TGCTGCTTTA	360
CAGAGTGATG TGCAGCCAGT GGGCCATGAT TATGTGGAAG GGATACTCGA G	411

(2) INFORMATION FOR SEQ ID NO:1328:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1328:

GAATTCCGCC TTCATGGCCT ACTTTTCCT TGGTCAGATC ACAATGCTCC TATAAAATGTT	60
'TCACATAACA TGCTTACTTG TGGGTATACC CTCCCTTATCT CCTCAGGGGC TAATTTGGG	120
AAGGGACTAC TGTCTTACT TTAAAGTTAA ATATAAACTA AATTCCCTCC CTAGTTAGCT	180
CAGCCTACGT GCAGAGATAA GCAAAAGTAG TTAACCTAAA AGATATCAC CTTTGGGGGG	240
TGTCAGAGGC AAAATAGAGT CAGTCATGCT AAGCTCCCCT CTCGAG	286

(2) INFORMATION FOR SEQ ID NO:1329:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 340 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1329:

GAATTCCGCC TTCATGGCCT AGGGGGATTG AAGATTTTT GTAGGTGGAA GGCCTGAAGT	60
GCGACTAGAG GGCAATAAT TCAAGGTGG AGACTGTCTG CTGATGTCAT TTCCAGTGGG	120
CTGTTTATGG ACTGGGCTGT TAGTGCTGGA GTGGCTACCC TGGCAACTA GTGCATTGG	180
ACTGGAACTA CTTGGGATA CAGTAGGCTT GGGAGTTGGG TTGGATTAG AAATAAGTTT	240
AGTTGATACT GAAGGCTTAG CTGACAGAGA GGGCTTGGGT GAGGCAGAAAG GCTTAGGCCA	300
GGGCAGGGGT TTAGGAGATG TGGCAGGTCT AGAATTGAG	340

(2) INFORMATION FOR SEQ ID NO:1330:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1330:

GAATTAAGA GGGCGATATC ATCACACTCA CTAACCAAAT TGATGAGAAC TGGTATGAGG	60
GGATGCTGCA TGGCCATTCA GGCTTCTTCC CCATCAATTAA TGTGGAAATT CTGGTTGCC	120
TGCCCCATTA GGATGTTATG CTGGCTGGCT CGCCTCCTCT TGACCCAGAT AGTTACCGTT	180
AACCACTGCT TTGGCAATGC TGCTTATAAC ACATCCCAAG TGCAGGCCGC AGTGGTCCAC	240
GTCATCCAGC CCCACCAAGT GACTTTGGTT GACTTGTGGG CTCCCACAGG ACTCGAG	297

(2) INFORMATION FOR SEQ ID NO:1331:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1331:

CTCGAGTCCG CTGAGCTGAG AAGCACTGCG ACTTTTCCGT GACAGACCAA CGATAGCTAC	60
CATTTTGGCA CCAAGGCTAG AGGGCCGCTT TTTGCCACTG GTGCCCAAGG TGCCCACCTGC	120
AGTGTCAAGAC TGGCTGCCAT CATTCCTCTC CAGTGAGCAC ATGTCTCAC TGATGCTGGT	180
GCTTTTGTC ATGTTCTTCC CTGATATGCC CATTGCTCG CTTTGCAATT TGGATGTAAA	240

GACACTGTCA CCCGATGGAT CATTAAAAGT GAGGACAAGA GTAAAAAGGA AAAGACAGAA 300
 AATGCATTT AGATAAAACA TTGGAGTAT AATTAGGCC ATGAAGGCCG AATTC 355

(2) INFORMATION FOR SEQ ID NO:1332:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 438 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1332:

GAATTCCGCC TTCATGTGCG GTGAAGGTCC TGTGATTGTA CAGTTAGCAC ATTTTATATG	60
ACAGTATAAT CTAAAAAAAT AACATAGAAA CAGAACATT AGAAACGTAAT GTCACAGTT	120
GTGAGTATGT CATTTTTAG GGAAAATAA AATATAGTAA CGATTTATGA GGCCCCAAAG	180
TTTTATATAA AAATGAAAAA GCTGTTGGC AGTTAGGACT GACTGTAGCC TTCTGTCAA	240
TCAGTCT'GA CAAGTGTAA AAGACATTAT CATCACAAAT -AGGGCTGAT TTCACTGT	300
CTGTCAAATA CAATCAATAT ATATGACTTT AAGAAAGTGT GACCATTTC CCAGAGTGAC	360
ACCAACAAGA TGGTGAATA GGAATTGGT TTTAACCTTA CTCACCTCAC AGAAATCCAA	420
CTAGCAACTA ACCTCGAG	438

(2) INFORMATION FOR SEQ ID NO:1333:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 309 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1333:

GAATTCTAGC CCCACCCACT TTCTCAGACA TCCCCACCGG AGGATCCCAT CAGTCACAAT	60
CCTCACTAAT TAGACCATTC AAATTCCCA AAATAAAAAGAG GTATAGACTT	120
ATCTTAAGGG TCTTAAGTTC TGGCATTCTT CTATTTAATA ATATATATG CTATAAAATG	180
GAATTACTAC CAAAATTTAG AAAATCTTT AGCAGAACAT ACAGCCCTAA TCTTACCACT	240
CCAGTACAAT CATTATTGAC ATTATGATG TACTTCGTTA TAGTATCAA ACAATTCCAG	300
TATGTGAAC	309

(2) INFORMATION FOR SEQ ID NO:1334:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 243 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1334:

GCGATTGAAT TCTAGACCTG CCTCGAGCTG CCGTGTGTTT CATTAAATT GTGTGACATA	60
AAATGTAAGA TGTACCCCTCT AAACCATTAA TTAGTGTCCA GTTTTGTTGTT ATTAAGTACA	120
TTCACATTAT TGTGCAACCG TCCCCACCAT CCATTACAG AACTCTTCA ACTTGCAAAA	180
CTGAAACTGT ATGCATTAAG CAATAACTAT CCCTTCCTTC TTTCTCTTC CCCAGAGCTC	240

GAG

243

(2) INFORMATION FOR SEQ ID NO:1335:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1335:

GAATTCGGCC	TTCATGGCCT	AATTCTGGGA	AAACTGAGAG	AAAAATCTGA	GGCCATCCAG	60
AAGGAAC TAG	AACAGACCAA	GCAAAAACA	ATCAGTGC GG	TTGGTGAGCA	GCTCCTGCC	120
ACAGTCGAGC	ACCTCCAGCT	GGAGCTGGAT	CAGCTAAAGT	CAGAGCTGTC	CAGCTGGCGA	180
CACGTGAAGA	CCGGCTGTGA	GACAGTGGAT	GCCGTACAG	AAAGACTGGA	GGTGEAAGTC	240
AGAGAAATGG	TGAAACTCCT	GT TTTCCGAA	ATAGCTCGAG			280

(2) INFORMATION FOR SEQ_ID NO:1336:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 281 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1336:

GAATTCGGCC	TTCATGGCCT	ATAGGCCATG	AAGGCCAAT	TCGGCCTTCA	TGGCCTAGAC	60
TAATCTTACT	GTAGAAATGA	TGTGAGATT	TC TTGACT	ATTTTAGAGC	AGATTCCGTA	120
TCTAATGGGA	TTCCATCTTG	ATGTACAGAG	CACCTTCTAC	ATAATGAATT	TTGCATTCA	180
GATGGATGAA	GCCTTTAAC	CAGACAGAA	TTAAGTATT	GCATATTCT	GGAAGAAAAG	240
CATTGATCAC	ATCCTCCTTA	GATATTTAGT	ATAACCTCGA	G		281

(2) INFORMATION FOR SEQ ID NO:1337:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 172 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1337:

GAATTCGGCC	TTCATGGCCT	AATATTTAGG	AAAAAAGTA	AACTAGTACA	CCTACCAGAA	60
AAGATAAAATA	TTAATTATT	GCATCTCTGA	CATGAGAAAA	AAAGCCTTA	TGTTTACTG	120
TTTTTTCTA	ATTTTCTTT	TTCTTTTTT	TTTCACATG	AATGTTCTCG	AG	172

(2) INFORMATION FOR SEQ ID NO:1338:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1338:

GAATTCTGGCC	TTCATGGCCT	ACTGTATTT	ATAGTGAAGT	GTTCATAAAC	TAAAGAGTCA	60
TTGATTTGGT	TTCCCTGGCTA	ATTAATCT	GAATTCCATT	TGAAGTTCCA	TTGAAATCAT	120
GGTTTTACTC	TATAGCAGTG	GATGTTTTT	CCCAACCTTT	CTGATATTT	TTTCCTTCCT	180
GAGACAGGGT	CTTGCTCTGT	CACCTGGAT	GGAGTGTAGT	TGCACCAAAC	TCGAG	235

(2) INFORMATION FOR SEQ ID NO:1339:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 148 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1339:

GAATTCTGGCC	TTCATGGCCT	ACTGTTTTT	AAAGGCATAT	GTTGTTTAT	TGTGCTTCAC	60
AGGTACTGTA	TCTTTTTTA	CAAATCTAAG	TTTTGTGGCA	ACTCTGTGTC	AAGCAAGGCT	120
ATTGGCCCCA	TTTTCCCAAC	AAGCACCGC				148

(2) INFORMATION FOR SEQ ID NO:1340:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 257 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1340:

GCCTGTGTGA	AGTTTGACT	TTAATCTACC	AGATCACTCC	TTCACCCCTCC	ATAAAAGATGT	60
CTGAACCTGA	CACTTCTCA	GGATTTTCGG	GAAGTGTGGA	GAATGGAACT	TTTCTTGAGC	120
TGTTTCCAC	ATCCCTGTCC	ACGTCAGTGG	ACCCATCCTC	AGGCCACCTG	TCAAACGTCT	180
ACATCTATGT	GTCCATATTTC	CTCAGCCTTT	TAGCGTTCT	GCTTCTGCTT	TTAACATTG	240
CCCCCCAGAG	GCTCGAG					257

(2) INFORMATION FOR SEQ ID NO:1341:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 259 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1341:

GAATTCTGGCC	TTCATGGCCT	ACTATAAAAGT	ACTCTCGCTG	GTATTGTCAG	TATGTGTGTT	60
AACAACAATA	CTTGGTTGTA	TATTTGGGTT	GAACCCAAGC	TGTGCCAAG	AAGTTAAAAG	120
TTGCAAAGGT	CGCTGTTCC	AGAGAACATT	TGGGAACGTG	CGCTGTGATG	CTGCCCTGTGT	180
TGAGCTTGGA	AACTGCTGTT	TAGATTACCA	GGAGACGTGC	ATAGAACCAAG	AACATATATG	240
GACTTGCAACC	AAACTCGAG					259

(2) INFORMATION FOR SEQ ID NO:1342:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 268 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1342:

GAATTCTGGCC	TTCATGGCCT	AGTCCTTGAC	TCTGGAGTTT	TACAAAGCAG	TCACATTTCA	60
AATAAAAGTC	GGGAAAGCA	ACACATCATC	CCCAACTTTT	AATTTTGCTA	AATAAGGATA	120
TTAGAAAAAG	AATAGAAAAT	TGCAGTCCCT	TACTGTTAA	AGAAAACCA	AAAGAAGTTA	180
AAAAAAAAAC	AACCTCATTA	TGTTGTCCTT	GTTCGGTTTT	TGTTTTCTTT	CCTTGGAAAT	240
CAGTGAAGT	TTGGTCAGCC	ACCTCGAG				268

(2) INFORMATION FOR SEQ ID NO:1343:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 241 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1343:

GAATTCTGGCC	TTCATGGCCT	AGCCATTAA	TATACTAAAA	CAGTGTGTA	AATTAACCTT	60
GGTACAAATT	GCCAGTCATC	TCTAGATCAT	TTAACGCATT	TTAAGAATAT	TTATTATCAA	120
TCTAAGTACA	GAAGAATAAC	TGCCAGCAGT	GATTATTTGC	TTGGATTAG	AGTTTTAAA	180
AATCCACCTC	ACTGAAATGG	TTATGTCAT	CACAGTTGC	AAGGTTGTC	TGTTTCTCGA	240
G						241

(2) INFORMATION FOR SEQ ID NO:1344:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 313 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1344:

GAATTCTGGCC	TTCATGGCCT	ACCCATTCT	TCCTTCCTGC	CTGGCCTGGG	CCCCCTCCTGC	60
ACAGATGGCC	TAGGTACCCA	GCCTGGAGGC	CAAGGCTGGA	TTCCCAGAGT	CTGCCCTGGT	120
GGAGTGGGAA	TAGCAGGTTTC	TCTGCAACTC	AGGGGAGCTG	CCCTGCAGGG	CTTCCCACAT	180
GTGCTCAGGC	CCCTGTGCCA	GGCTCTGGTGA	TGCTTCCTCC	TTGCCTTCA	GGATCTCCTA	240
TTGCACAGCA	GACAAGATGC	ACGACAAGGT	GTTCGCATAC	ATCGCCCAGA	CCCAGCACAA	300

CCAGAGCCTC GAG

313

(2) INFORMATION FOR SEQ ID NO:1345:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1345:

GAATTCCGCC	TTCATGGCCT	AGGCTTCTCT	TCTGAATTGA	TTGGTAGTGT	TGTTATTTTC	60
TTGTTATTCA	GTTAACAAAG	TACATAATCA	ACATCAGTGC	TTGGGAAGTC	AGGAGTACGA	120
GAGATAAATA	AGAAGTATAT	GATCTTTCT	CTTATTTCT	CTCAGTATAA	GTTGGACCTG,	180
TTTTTCCCTT	CATCTCTTTT	TCTCAAGAA	CATAATATEG	GCTGAAGTGG	AATGAGTATT	240
CAAATTGTCC	AAAAAAATAT	ACAAGTGAGG	GAATTAATAA	AATTTTTGT	AATTATAAAT	300
ATGTATATAT	TGGGGGCAG	TCTCGAG				327

(2) INFORMATION FOR SEQ ID NO:1346:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1346:

GAATTCCGCC	TCATGGCCTA	AATCCTTGGA	AATACAATGA	GAETCATCAG	AAACATTTAC	60
ATATTTGTA	GTATAGTTAT	GACAGCAGAG	GGTGTGCTC	CAGAGCTGCC	AGAAGAAAGG	120
GAACTGATGA	CCAACTGCTC	CAACATGTCT	CTAAGAAAGG	TTCCCGCAGA	CTTGACCCCA	180
ACACTCGAG						189

(2) INFORMATION FOR SEQ ID NO:1347:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1347:

GAATTCCGCC	TTCATGGCCT	AGTGGGCTTC	AGGAAAGCAA	AATATAAATA	TTATGGTTAA	60
AGAATTTATA	ATTAAGATT	CACCCATAAT	TCTTAATACT	GTGTTGACAA	TCATGGCTGC	120
ATTGTCTCCA	AAAACAAAAG	AAGATGGATC	CAAAGATACG	TCTAAGGGAA	TGGAAAATCT	180
TTGGGGTATC	AAATCGATTA	ATGATTATAA	CACTTGGTTT	CTTGGTGTG	ACACGGCAAC	240
AGAAATAACG	GAAAAGCTCG	AG				262

(2) INFORMATION FOR SEQ ID NO:1348:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1348:

GAATTCCGCC TTCATGGCCT AGTAATGTTA AAACAAACGA AATAAAAATA GAAGGAAAAA	60
CTTTCTGAGT TTCAAAAACA ACAGACTAGT ACTCTAAAGA ACTCTTTAAA ACAATTAACT	120
GTTAGGATTC CAGTTATGAT TGGATATTAT TTAATTCTGT TTCTGATG TG GGGTTCCCTCC	180
ACTGTGTTCT GTGTGCTATT AATATTFACC ATTGCAGAAG CCTCATTCAAG TGTTGAAAAT	240
GAATGCTTAG TGGATCTGTG CCTCTTATGC ATATGTTACA AATTATCTGG AGTTCTTAAT	300
CAATGCAGAG TTCCCCCTCCC CTCCCGCGCTC GAG	333

(2) INFORMATION FOR SEQ ID NO:1349:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 553 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1349:

GAATTCCGCC TTCATGGCCT AGGAAGACAG ATTCACAGA GAGTGGTTT CATGTTAAAT	60
GTCTGATTC CTTGTCGGAT GCCCCCCACAA GGACACTAGG TTTTGTGGC CAATGTGTTA	120
TGTGTGTATG TAGGCAAGCA GGAGGGGGTC GGTGGGCTTC TTTTTTTTTTC TATTTTTTTC	180
TTTTCTTTT TGGTTGTGGA AGAACCCACGT TAACCCCTCT AATTCTTTA AAAAGACATA	240
AGGTTTAAA AGGAGATTTT AGGAAGAACG AAAAGAAAAA AAATGGGATA CATATAATTGC	300
ATCTGTAATC CAATCAAGCT GTCACTGAAG ACAAACCTGA TCTCTGTTCT CACCAGTTGA	360
CACACTCATC AGGCTATAGG TCAACTCTAA GTGTGGTGC AGGTGATGGA CTCTATGCCA	420
ATTCTGATAC TGAATTCTCT TTGCTTATT GAAGCTTCAT TTTGTGTGTT TTAATTATGA	480
AAGTATAGTA ACACCTACCA TGCAACACAA AGCAATATCA ATATTTCAA ATGCATCTTC	540
CCCCATTCTC GAG	553

(2) INFORMATION FOR SEQ ID NO:1350:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1350:

GAATTCCGCC TTCATGGCCT AGGTTTTTGTT TGGTTGTTT TAAAGGAGTT AGACATAGCC	60
TAACAAACTG GAAATTGACA TTTCCATCTA TTTTCTCCC TTTTGAAGCT AAATATGTCT	120
TTGTTATTG GGTCTCTAGT CCCCATTACT ACTTATTTTC TGATAGTCA TCCACAGCAA	180
CTTCAGTCAG TTAGCTCACT AGTTCTTATG GCTAGAGATT CGCCAGTTT TCCCCTAAAA	240
CTCGAG	246

(2) INFORMATION FOR SEQ ID NO:1351:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 231 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1351:

AAAGAAAAAA TAAAAAAA AAAAAAAA GGAAGTGTAA TGTCAGACAC ACAAGAAAAG	60
CAAATCAGTG TTGTAAGCTT AAAGTACAAT TTCAAAGGTC ATTACCAACA GCAGGGTTTT	120
TTTTATACTT TAAAACATT ATGCTACATA TCATTGCCAT TTTCATAATT TGGGGTTTTG	180
CTACTCTTAT ACAATGGAAT CAATGGAAT GTCCATCCAGC CAGATCTCGA G	231

(2) INFORMATION FOR SEQ ID NO:1352:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 260 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1352:

TGAATTCTAG ACCTGCCTCG AGTTGCTCCC AGGAATAGTC CAAAGGAGCT GCTCTTGCCC	60
CTTTATACAC AAGGCCAGC AACCAAAACC CTCCCTCCTG GCAATAAGGC CTCACTATAG	120
TTGCCCTCAT GCTTCCTAAG CTCTCTCTTG CTCTAATAAC TCTAATTCTG GGCCAAGCCC	180
AAGAGTGCCA TTCTTTCTTC CTAGCTGGGG ATGGAAAGCT GAGAGGGCA CAAGGAGGGC	240
AAAAGTATCA CCCTATCGAG	260

(2) INFORMATION FOR SEQ ID NO:1353:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 482 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1353:

GAATTCCGCT TCATGGCTA CTTTCAAGT GAATGATTTG GTGTTGAAC CTTCTTGATT	60
ACCTTAAGAG GGAAAATGA AGGAGAGGGAG GGAACCATCA TCACATACTT TTACAGTTGT	120
GGAATGTTAG CCCACTATAG TGTGTTAACTA AGGAAAATCT AATATAATAC ACTCCAAGT	180
GATCTGAAAT GATCCGCTAT TCAGAATTCC AGAGAAAGAC ATATCCCTGC CAGAAGGGTG	240
TCCTTCATAA CCAAATTGG TCTTCAGTCT GGTCGGTGCA TACTCAAACA GGAATCACTT	300
CCCTTAAGGA ACCTAAGGTA TGCAAGTTGAG ATCAACTTAT TCCTTTTGAA TTTGTCCCCT	360
TAAAGCATCA ATCAGACGTG AATGCATCTT GTGACTTGGG GTTACTAGTA ATATTGAAAT	420
CTGAAACTTG GGGGATCTTT GAAGACACAT GGGATTAAAA GCTGCATAAT ATACATCTCG	480
AG	482

(2) INFORMATION FOR SEQ ID NO:1354:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 339 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1354:

GAATTCCGCC TTCATGGCCT AATACCCAAA ATTGGCATGA CTACTTATAA AATAGTGCCT	60
CCCAAATCCT TGGAAATATC GAAAGACTGG CAATCAGAAA CCATAGAGTA TAAAGATGAT	120
CAGGACATGC ATGCTTAGG GAAAAAGCAC ACTCATGAGA ATGTGAAAGA AACTGCCATC	180
CAAACAGAAG ATTCTGCTAT TTCTGAAAGC CCGAGAGAGC CACTGCCAAA CCTTAAACCG	240
AAGCCTAACCG TGAGAACAGA GCATCAAGTG CCCAGTTCTG TGAGCTCACC TGATGATGCC	300
ATGGTTAGTC CTCTGAAACC TGCTCCAAA AATCTCGAG	339

(2) INFORMATION FOR SEQ ID NO:1355:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1355:

GAATTCCGCC TTCATGGCCT ACTTTAGAT GCTTTACATG CATAAATTCA AATAATACAT	60
TAATAACCTT CCATACATCT TTCTTTGTGT ACACGTTACT ATTTCTGAA GATAGATTC	120
TAAAAGTGGAA ATTTCTAGGC CAAATGATTT ACACTTTTTG TGTTTGTGTT TTTTTTGTT	180
TTTTTGAGAC GGAGTGTCTC GAG	203

(2) INFORMATION FOR SEQ ID NO:1356:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 516 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1356:

GAATTCCGCC TTCATGGCCT AGGAGAACATCA CGCAGGGAGG TTGCAGTGAG CCGAGATGGC	60
AGCAGTACAG TCTAGCTTCG GCTCGGCATC AGAGGGAGAC CGTGGAAAGA GAGGGAGAGG	120
GAGACCGTGG GGAGAAGGGAG AANGAGGGGG AGGGGGAGGG GGGGAGAGGG AGAGGGACAA	180
TGATGTTCTG CTGTAGGTAT TCTTCCCCAT TTGAATTTTT TCCTCAGCAT TATTTTTTTT	240
AACATCATTC AGTCTCCTCT TATACTACAC TTGGATTGAA TTTAATATCT CATGAAGAAA	300
AAACATTCTC ACTTTGAAGC ATGTGAATTA GCATGTTTT ATAACAGCTT TATTGAGATA	360
TAATTTACAT ATATAAATAA ACCGTTAAA CTCTATAAAAT CACTGGTTTT TAATGAGATA	420
TAATTTACAT ATATAAATCA ACCATTAAA GTGTATAAAAT CAGTGGTTTT TAAAATATTC	480
ACAATGTTGT ACGACCGTCT TCTCAGTCAT CTCGAG	516

(2) INFORMATION FOR SEQ ID NO:1357:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 405 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1357:

GAATTACTAA TCAAGAAAAA ACAAAATCAC AAATCACTAC CAAAGCAGTT CATTGTCAT	60
AATTTTTTTC CCTTGATTT TTGTTTACTT TTTGCGAACCT CGAGCATAC ATCCAAGTTG	120
CCCTAAATAT ACGCACACCT GAGGTGTC TTATAGGAGC TTTATGGTTG CAAGTTTGT	180
GTATAATCTT TAATCATTAA GAGTTGATTA TTGTGTATCT AGTACCAAA GAGTCCTGTA	240
TTATTCTTT GCATATGGAT ATCTAGTTT GGAAATCTTC CCCGTTGTGT CATTGGTG	300
GTGTTTGAA AAATGTGTT ATTCCATATA AATTGGTTT TATTATCGAG CACATTCAATT	360
TTGCTCACTG GTCTGTGTTT CTCTGTGTAC GCCAGTAACC TCGAG	405

(2) INFORMATION FOR SEQ ID NO:1358:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1358:

CTCGAGTCTG GCTTTGTTTC AAAATGATTA AGATTAATAG ATGAAATAAT ATTTTATAGC	60
CACTGCATTG GATACTTGGAA TTGTTTTCA AGCATCTTCT TATGACTAAA TCTTCTGTTT	120
CATTCTGTTT TAAATCTAA AAGTAAAATG ATGGTCACTT GGAATCTGCT CTATATTTA	180
ATTATAGTCT CTTCTGTTTA TAAACAATAA CTTACACATA TTTTCATAG TTTTAAGTAA	240
AGATTAATAA ATGCCATCTT AGAAAGGATC TGTTAACCT ATATTATAAA AGTTAGATAC	300
ACAATTAGG GCCATGAAGG CCGAATT	328

(2) INFORMATION FOR SEQ ID NO:1359:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1359:

CTCGATGGCC TAAGGCAGTC TCCTGGAAGC ATGACATTGA TGCCCTGGC TCACCTCTTT	60
GTTTTGTTT CCTTCCACTT TAGCGGGAAC CACATCTTCA AGGGCCGTGC TGCCGGCATA	120
GCAGTGAATG AGAACCGCAA AGGCCTCATC ACAGGTACGG ATGGAACTG CCTGGCACCT	180
GGCAGCCAGG CCAAGGTCCC CTGGCGTCAC CCCCCAGCTT CAGGACCTCT AGGCCATGAA	240
GGCCGAATT	250

(2) INFORMATION FOR SEQ ID NO:1360:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(iii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1360:

GAATTGGGCC TTCATGGCCT ACGATTCTAT TCCCTTATCT GCTTCAGAG CTATTTAAGA	60
ATCAATGTCT TATTTTCCT GAGCTTTA TAACCTATT CATATTTCA ATTGCTGATG	120
CCTCTTGAG CTACGAGTTC TACTTGTGC ATAACGTTGA GGAATTCTA CGTTTACTGT	180
TTCTCCTTAC TTCACTCATC CTCGAG	206

(2) INFORMATION FOR SEQ ID NO:1361:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 377 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1361:

GAATTGGGCC TTCATGGCCT AAGAAATCAA CGTTGAACCC TAATGCTAAG GAGTTCAATC	60
CTACAAAGCC TCTGCTGTCT GTGGTGAGCT GGGACAGGAG AATGTGGACT TTGGTTCTG	120
TGGGGAGACT TGGGCACTGC TTATAGATGA ATACGGGAG GAAACACTTCATCCAGGAC	180
CACTTGCCTG GCAGGCAGTG TGAGGAGATG TCATAAAAAT GTAAGGATGG CACCTTGGG	240
GCTGGCTTGG GGAAAATGGA CTCAGGTCTC TAGGTTGGG TGATCAGGGA TCCCAGTGAG	300
TCTGATGAGG GTTAAACAGG CTTTCTTTG GTTCTGGCA TTGGCTGAG GGAGTATTGG	360
AGTGGGGATA GCTCGAG	377

(2) INFORMATION FOR SEQ ID NO:1362:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1362:

GAATTGGGCC TTCATGGCCT AGTAAAGGC AAGTATGTCA TATTACTGAG GCTACAAGTT	60
AGTCAGCAGA TGAGTGCCAG TCCAGCTTT TCTGGTATGT TATTGTTAGA AATATTGAGT	120
TCTAAATGTCA CATCTGAGGA AGTATGTAAAT TTGAGAATTG TAACTTCTAA GGGATTCACT	180
GCATCATAGC TATGCCGTAA TGGAGTCTAA CATATGACCA ATACCAACCC ATAATCCAGC	240
ATTGAAATTCT AGACCTGCCT CGAG	264

(2) INFORMATION FOR SEQ ID NO:1363:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1363:

GAATTCCGGCC	TTCATGGCCT	ACCCCTCCCC	TAGTTCCAGT	CCAGGTAAAC	AAAAATTGAT	60
TCTATTTTT	CAAAACACCA	GCCCCCTCAG	ATGGCCTGGT	TAATCTTCAT	TAACATGTTA	120
TCTTCATTAA	CATGTTTATC	TTCATTAACA	TATTTCTCAG	TGATAAGAAG	GGCCCAGGGT	180
TCAACATCCC	ACTTTGCATC	CATGCAGACA	AGGGCTGTGG	GAAGCTGAA	AACTGAAGAG	240
GCGGTGAATC	CAGGAGGGAT	TCCCCAGATA	TCCGTGAGTT	GGTGTGAC	TTTCTTGAC	300
ACGTCTTCC	TTTACTTTAC	ACTTCCACTC	GAG			333

(2) INFORMATION FOR SEQ ID NO:1364:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 358 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1364:

CTCGAGGGGT	CATGTTGTTG	GGGAGAAAAGA	GACCACATCA	CACACAGAGA	GAACAAGTCT	60
GTATTAGTTG	CTTTGCTAC	ATAACAAACC	ACTCCAAAAT	TTAGTGGTTT	AGAACATCA	120
CCTATTTAGT	TAATGATTCT	CTGGGTGCA	ACTTGGTCTG	GGATCAGCTG	GGCACTTCTT	180
TTGCTGGTCT	CAGCTGGTT	CAGCTGCCA	TCAGCTAGGG	AGCTCTGTT	CAGAGGTTGG	240
TTGGCTATGG	GTGGCAGGA	TCAAGGATGA	CGGAGCCATG	TGTCTCTTT	CCCTTTATTA	300
CCCACAGGT	TAGCCAGAT	CTTTCCCTT	TCTTCCCTAG	GCCATGAAGG	CCGAATTC	358

(2) INFORMATION FOR SEQ ID NO:1365:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 292 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1365:

GAATTCCGGCC	TTCATGGCCT	ACTTGTTCAG	GGTATGGGC	TAGGATGAGA	GAGAATNCCA	60
CAGACTATGA	AGGAAGAGTG	ATAGATCCAG	ATGAGATACA	GCTCAGAGTG	CCACGCC	120
AGAAAGAGGA	ATCAGGCAAG	TACTGTCCC	AGGCAGCTGG	AGGGTGAGGG	CTGACTGCC	180
TGGCTTCCTC	ACTTGGGGAG	ACCATGGGTC	TCTGTAGAAA	TTCCAATATA	AAGGCAGGG	240
AATTGACTG	CATGGAGTCT	TCAGGTAGAA	ATGTTCTCT	TGCCTAAATT	CA	292

(2) INFORMATION FOR SEQ ID NO:1366:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 335 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1366:

GAATTGAGCA	AGATACCTGG	GTCATGATCT	CTGAACAGGG	TGAGAAACTT	TATAAAATGA	60
TGTGCAGACA	AGGAATCTG	ATCAAAGACA	AAAAAAGAAA	ACTGACTACG	TTCCCTAAAT	120
GCTTTCTTGG	AAGCGAATT	GTGTGATGGC	TGTTGGAAAT	TGGAGAGATT	CACAGGCCTG	180

AGGAAGGGCGT GCACTGGGA CAAGCATTAT TAGAAAATGG AATCATTAC CATGTTACTG	240
ATAAACATCA ATTCAAAACCA GAACAGATGT TATATAGATT TCGCTATGAT GATGGAACAT	300
TTTATCCAAG AAATGAGATG CAGGACGTTG TCGAG	335

(2) INFORMATION FOR SEQ ID NO:1367:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 383 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1367:

GAATTCGGCC TTCATGGCCT ACTTTCTCTG TTTGCCTGAA CCTTTCTTT TCATGTTAAA	60
GCCTTCCTC AAATGCTGA TTACCCCTGG CTGCCGTCA TTTAAGAAAG CGCCACTAGT	120
CAGCTCATCG GAAGCTGTGA GGGAGAGGGC TGCAATTGGT CCTGCCAGGT GGAGGAACAC	180
TCAGGCATCA GTACTAGGAG GTCTTTCCCT TCAGCCCATT GGATTTCCCT AGAGTCCTAC	240
ACGGCTGGGA TGAGGCACCT GGGTGCTGAG TAGAGGAAGG GAGTCATGGG TCAGTCACCC	300
TGTATGCAGA TTITCACACA ACCCCCTCTC TCCAGGACAC GCCTCGCCCC CCACCCCTAAG	360
TAATGCAGAA CCCAAATCTC GAG	383

(2) INFORMATION FOR SEQ ID NO:1368:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1368:

GAATTCTTAT GTGACTGCGA TGGATCTCTT TGTTTCTGTT TGTTTCATTT TTGTTTTGCG	60
AGCCTTGATG GAATATGGAA CCTTGATTA TTTTACCAAG AACCAAAAG GAAAGACTGC	120
TACTAAAGAC AGAAAGCTAA AAAATAAACG CTCGATGACT CCTGGTCTCC ATCCCTGGATC	180
CACTCTGATT CCAATGAATA ATATTTCTGT GCCCGAAGAA GATGATTATG GGTATCAGTG	240
TTGGAGGGC AAAGATTGTG CCAGCTTCTT CTGTTGCTTT GAAGACTGCA GAACAGGATC	300
TTGGAGGGAA GGAAGGATAC ACATACGCAT TGCCAAACTG ACTCGAG	347

(2) INFORMATION FOR SEQ ID NO:1369:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1369:

GAATTCGGCC TTCATGGCCT ACCATTTCT ATGAGCAGAG GAGAGTCACA GGGCATCATG	60
TGTTAGGAGA AAGAGGCTGG ACTTTATCTT GTCAGTAATG CTGGATGATA CAATAAGGGT	120
AGGGCCTCAA AAAGTAAATG TAAAAATGAT ATTTGGCACA CATTGGGTG AATAGAGGCT	180
GGAGAAAGGG AACCAAGTCATGATGATTG GAATAATTCA AGTATAGGCC TGGGATACTC	240

GAG

243

(2) INFORMATION FOR SEQ ID NO:1370:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1370:

GAATTCCGGCC TTCATGGCCT AGAGGGATTAC TTATTTCTCA GCATTCATCT GGTAACCTAA	60
GCAGCATGAA GCAAGAGTTG CACTTTAAAA AATGACAAGA AAATAGCTAT TCATTTAGTC	120
GACAGAGTAA GGCCCATCTC ATTTCCAGGA TCACTAGTTT CTGCTTATGA CGGGGTGAGC	180
ATCCGCCAGC GCGGTGATTG GGAGGCGCCC CTGTGTCTTT AGGCTGAGGC AGTGCCATA	240
GCTGCACTGC CTCGAG	256

(2) INFORMATION FOR SEQ ID NO:1371:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1371:

GAATTCCGGCC TTCATGGCCT AGTGTAGCAA GCTTCCCCCT TGGGAGGGAT GTGAGAACAG	60
AAGACTGAGG ATTGTCCTCA ACTCTAGGAT TCTTGATGA TTGATTGGAT TGGGGTTTTG	120
TGTTGTGCT AATATTACGG ATGCTAAAAT GCCTGTACTT CCAAGGTGAT AGCCACCAAT	180
AACCATAACAC GTACTAGTCA TCCTAGAAGT GTTTTTATTT CTTCTGTTGG TTATTTCCC	240
TACCCCTAGG GTTGGTGTCT GTTTCCTGCT ACTTCAGGTT GGTTTCCAC TGGGAGGCTT	300
CTGCTGACAG AAAGCCCCAT GCTTGCTCG AG	332

(2) INFORMATION FOR SEQ ID NO:1372:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372:

CTCGAGGGCA ACTGCAGAAG AAAAGATCAG TGAATCTGAT GACATAGCAG AAGAAACTAT	60
CTAAAGCGAA GAAGACAGGA AAAAAGGCC CAATGTGAA TGAAACAGTC ACCAGTGAGC	120
TGTGGAACAA CCTATATGGG TTATAGGAGA CCCTAAATGA GAGAACAGG GACTAAAAGA	180
AGGATTTAA GAAATAATAG TACAATTTC TCCAAGTTTC ATGAAAACCG ATTGAATTCT	240
AGACCTGCCT CGAGGCAGGT CTAGAATTCA ATCGC	275

(2) INFORMATION FOR SEQ ID NO:1373:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 350 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1373:

GAATTCCGGCC	TTCATGGCCT	ACAAAGACCAT	CCTGGCCAAC	ATGGTGAAAC	CCTGTCTCTA	60
CTAAAAAATA	CAAAAAAATT	AGCCAGGCAT	GGCACCGTGT	GCCTGTAGTC	CCAGCTACTC	120
AGAAGGCTGA	GGCAGGGAGC	TTGCTTGAC	CCAGGAGGCA	GAGGCTGAG	TGAGCCGAGA	180
TCGGCCCAT	GCACCTCAGC	CCGGGGACT	GAAGGACTC	CATCTAAAAA	AAAAAAAAAA	240
AAAAAGATGA	GCCTTTCTG	GGAAAAGTGG	AAAGACAGAG	AAGCCTCCTG	ACAGCCAAGG	300
AGACCAGCAG	CCAGTAGAGC	AGGTGTTGTA	ACAAGGCCGA	GGCCCTCGAG		350

(2) INFORMATION FOR SEQ ID NO:1374:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 273 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1374:

GGAAAAATCA	AGGAGACATA	TTACCACCAA	AAGAACATA	ATTTCTAGA	AGCTGCAAAT	60
AAATAGAGAC	TATACACTGC	CTTACAGATA	ATTTAAAGTA	ATTGTTTAA	GGAATCTCAG	120
TGAACCTCAA	GAAAATACAG	AGAACATCAGT	CTATGAAATC	AGGGAAACAA	TAAATCAACA	180
AAACGATAAA	TTAACACAGT	TGAAATCACT	AAAAGAACCA	AACAATTGTT	GGGGCTAAAG	240
AATACAATGA	ATGAAATGAA	AAATACTCTC	GAG			273

(2) INFORMATION FOR SEQ ID NO:1375:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 332 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1375:

TGTGGACTAA	AAAAGATGCT	GGGAAAAAAG	TTGTTCCATG	TAGACATGAC	TGGCATCAGA	60
CTGGAGGTGA	AGTTACATT	TCAGTATATG	CTAAAACTC	ACTTCCAGAA	CTTAGCCGAG	120
TAGAACGAAA	TAGCACATTG	TTAAATGTGC	ATATTTGATT	TGAAGGAGAG	AAGGAATTG	180
ATCAAAATGT	GAAATTATGG	GGTGTGATTG	ATGTAAGCG	AAGTTATGTA	ACTATGACTG	240
CAACAAAGAT	TGAAATCACT	ATGAGAAAAG	CTGAACCGAT	GCAGTGGCA	AGCCTTGAAC	300
TGCCTGCAGC	AAAAAAGCAG	AAAAAACTCG	AG			332

(2) INFORMATION FOR SEQ ID NO:1376:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 349 base pairs
 - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1376:

GAATTCTGCC	TTCATGGCCT	AGGCTTCAGC	AGCTTCCCTAC	GATCAGCCGA	AGAAAGCAGA	60
AGCTCTGGAG	GCTGCATCG	AGAACCTCA	TGAAGCCAAG	AACTATTTC	CAAAGGTTGA	120
CTGCAAAGAG	CGCATCAGGG	ACGTGTTTA	CTTCCAGGCC	AGACTCTACC	ATACCCCTGGG	180
GAAGACCCAG	GAGAGGAACC	GGTGTGCGAT	GCTCTTCCGG	CAGCTGCATC	AGGAGCTGCC	240
CTCTCATGGG	GTACCCCTTGA	AAACCACATCT	CTAGAGAGGA	CATCCCTGCT	GGGCTGCTGT	300
GCAGAGTATA	AGATTTTGA	CTTGTTCATG	TCCCCTCTCA	CCCCTCGAG		349

(2) INFORMATION FOR SEQ ID NO:1377:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 437 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:

GAATTCTGCC	TTCATGGCCT	AAATATGTTG	AAATAGGTTA	GAAAAGGAGG	TGAATATTAT	60
GGGCTGTTGT	CATTGTA	TTCTGCAGTA	ACTTCAGCGT	TGAGGGTTTT	TTTTGTTTTT	120
GTTTTGTTT	TGAGTTTG	TTACTGAAAT	CAAAGAGTTG	TTACTCTGTC	TGTGGGTGTT	180
TAAGAGACAG	GATCTCACTC	TGCTGCCAG	GCTGGAGTGC	AGTGCAGGCC	CGAATGCCTG	240
GGCTCCAGGC	CCTCCTGAGT	AGCTAGGACT	TACAGGCATG	CACCACCACA	CCGATTTTTT	300
TATTTTTTA	TTTTTATTTT	TTTAGTTTT	TAGAGGTGGT	GGGGGGGTCT	CACTGTGTCT	360
GCTTCTGGC	TCAAATGATC	CTCCTGCCTC	AACCTCCAA	AGTTCTAGAA	TTACAGAGGT	420
GAGTCACAC	ACTCGAG					437

(2) INFORMATION FOR SEQ ID NO:1378:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1378:

GAATTAAGC	ACTGCCTCTA	TTCAGGCTGC	CGAGGCACTG	CTTTAATTTT	TTGAAAGATT	60
CACCGCGTCT	TCTTGATTT	CAAGAAAAAT	CCCGTTAAGA	ATTGAGGGGC	TCTCTTCTTC	120
CCCTCCTGAC	GTGAGTGTAA	CTCACTTCCT	GGTATGTCTC	CTTCCCTTT	GGCCTACATC	180
CTTTGTCTGT	TAGGTGCTTC	CACATCCTTA	TGTCTAAAT	GGCCAAAATA	CCTCACCCCC	240
ACTGCCAAA	CAAACAGATC	ACTCGAG				267

(2) INFORMATION FOR SEQ ID NO:1379:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1379:

GAATTCCGCC	TTCATGGCCT	AGAGGTGACT	AGAACCGAAC	ATGGAGGTGG	CGCACCCACCT	60
CATCCCACT	CATGCCACCT	GGGAAGCAG	CTTCAGGCCT	TTCTGTTGTA	ACCTCAGCAG	120
AAACTTGGG	GTTTACCTT	TATCTTGAC	ATGCCAGG	GAGTAAAGG	GACTTGCTA	180
GGTTCATGTA	CAAACCTCT	SCTTCCAGAG	CAGGACTTA	TTGGGACACC	ATAAGGTTGA	240
GGCTGGAGG	TACCCAAGAA	TTCCCTGGGA	TGGTATGTCA	TTGACTGTGG	GTAGAGGGC	300
TCGAG						305

(2) INFORMATION FOR SEQ ID NO:1380:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1380:

GAATTCCGCC	TTCATGGCCT	AGGCTTGGTT	GCCTCTGAAA	GGAGGGAAAG	TCTCTTGGTA	60
AATTATCTCT	TTTGCTGT	TTGCTGTTTC	TCTGCTACCG	TCTTTGCAGT	TCTCCTCTCA	120
CTGGTTGCAG	GCTTTCATAG	TAAGGTTGG	CGAGAAATGT	TCCAACATC	ACATTTGGA	180
TTCTAGGCTG	TCACCCCAGG	CTCGAG				206

(2) INFORMATION FOR SEQ ID NO:1381:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 496 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1381:

GAATTCCGCC	TTCATGGCCT	ACTCCTCGAT	GCTGATTATC	ATCCTACTGC	CCATGGTTT	60
CTGCGCTTG	CTCATCATGG	TCATGTGCTA	CTTGAAAAGT	CAGTGGATCA	AGGAGACCTG	120
TTATCCTGAC	ATCCCTGACC	CTTACAAGAG	CAGCATCTG	TCATTAATAA	AATTCAAGGA	180
GAACCCCTAC	CTAATAATAA	TGAATGTCAG	TGACTGTATC	CCAGATGCTA	TTGAAGTTGT	240
AAGCAAACCA	GAAGGGACAA	AGATACAGTT	CCTAGGCACT	AGGAAGTCAC	TCACAGAAC	300
CGAGTTGACT	AAGCCTAACT	ACCTTTATCT	CCTTCCAACA	GAAAAGAAC	ACTCTGGCCC	360
TGGCCCCCTGC	ATCTGTTTG	AGAACCTTGAC	CTATAACCG	GCAGCTTCTG	ACTCTGGCTC	420
TTGTGGCCAT	GTTCCAGTAT	CCCCAARAGC	CCCAAGTATG	CTGGGACTAA	TGACCTCACC	480
TGAAAATGTA	CTCGAG					496

(2) INFORMATION FOR SEQ ID NO:1382:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1382:

GAAACTAGAC AAGAAATCTC AAGCCATGGA GGAGCTAAAA GCAGAGCGAG AAAAACGAAA	60
GAACAGAAC A GCTGAGCTCC TTGCCAAAAA ACAGCCATT AAAACCAGTG AGGTCTACTC	120
TGATGATGAA GAGGAGGAAG AGGATGACAA ATCCAGTGAA AAGTCAGACC GCTCATCACG	180
AACATCATCG TCTGATGAAG AAGAGGAGAA AGAAGAGATC CCTCCCAAAT CCCAACCACT	240
TTCCCTTACCT GAAGAATTGA ATCGGGTTCG ATCTCTCGAG	280

(2) INFORMATION FOR SEQ ID NO:1383:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1383:

GAATTCTAGA CCTGCCTCAG TCTCCCCGTC ATGCTCCCTC TGCCCCGCC TCAAAAAAAAA	60
AAAAAAAAAA AAAAAAAACA ACAGCACCTG TCCAGGCTTC CTTAGGTACA TCTTCTTTGT	120
ATCCATTGGG AGGCTCTGAG ACTGGCCCCA CTTGGTCCTA AGAATCCCA GGTCTTTGGG	180
AGCGTCCAGC ATGTTAATTG CGGTATCATT ACATACTGCT ATCCCTTCC ATTTCTTTT	240
GTTCCATCAC TCTCCTCTCG AG	282

(2) INFORMATION FOR SEQ ID NO:1384:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 458 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1384:

GAATTGGCC TTCATGGCCT ACAGATTATC TTACACTGAA CTGATCAAGT ACTTTGAAAA	60
TGACTTCGAA ATTATATCTTG GTGCTCTTC TACTTGCTGC ACTGAGTCTT TCAACCACCT	120
TTTCTCTCCA ACCAGACCAG CAAAAGGTTC TACTAGTTTC TTTTGATGGA TTCCGTTGGG	180
ATTACTTATA TAAAGTCCA ACCGCCCATT TTCAATTAT TATGAAATAT GGTGTTCAAG	240
TGAAGCAAGT TACTAATGTT TTTTACCAA AAACCTACCC TAACCATTT ACTTTGGTAA	300
CTGGCCTCTT TGCAAGAAT CATGGATTG TTGCAAATGA TATGTTTGAT CCTATTGGA	360
ACAAATCTTT CTCCTTGGAT CACATGAATA TTTATGATTC CAAGTTTGG GAAGAACGGA	420
CACCAATATG GATCACAAAC CAGATGGCAG GACTCGAG	458

(2) INFORMATION FOR SEQ ID NO:1385:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1385:

GAATTCCGCC TTCATGGCCT AAGTTTCAT AATCTTCTA AGCAAATAAA TTGAGCATGC	60
AGGTTTTTT TGCTTCAGT AAGTATGTTA AGATATTTA TTGTACTTTG GTTTCTTT	120
CTTTTTTTT TTTTTTTTT TTGAGACTG AGTCTCTGTC ACCCAGGGTC GAGGGCAGTG	180
GCCCAACCTC AGCTCACTGC AACCTCCGCC TCCCATGTT CAGTGATTCT CCTGCCTCAG	240
TCTCCCGAGT AGCTGGGATT ACAGGTGTGA GCCACCACGC CCAG	284

(2) INFORMATION FOR SEQ ID NO:1386:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 275 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1386:

GAATTCCGCC TTCATGGCCT AGTAGTTGTT CCATGCTGTT GTTTTTGTT TTATCTTCA	60
TTGCCTTCC CTCTGCAGTC AACATTATGA CCTGGGACT CCAGCATCCT TCAAGCAAGC	120
CATTTCCGAA GAAGGTGAAA AGAAGCCAGG ATGATTGGCA CCTCCTCCTC CTCCCTCT	180
TCTTCCTCTT CCCTTGCCCA GCCCCCTCCT GTGCGTGTGT TTCAGACAAC ACAGGAGCCA	240
GCACAGGAGT CGAAAATCCT GTAGCGCAAC TCGAG	275

(2) INFORMATION FOR SEQ ID NO:1387:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 296 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1387:

GAATTCCGGCT TCATGGCCTA ATTGAATTCT AGACCTGCCT CGAGCCTCCA AAAAGAGTAA	60
ATAAATAAAA ATAAAATTGC CTTAACACAG AAACACACAT AAAACAAAGT TATATATTGA	120
ACCTAACCCCT GTATTCCCTC TGGGAACAGT GGTCAGTAT TCAATAATTC AGGATTGCA	180
GCAGCATAGA ACTTAATGTA ATGAGAGTCA AGTATATATT TCCCAGAACCT CTAACACTAC	240
TGCATATGTG AACATATCTT ATTCAATTGAT TATGTGGCA TATAGTGAAA CTCGAG	296

(2) INFORMATION FOR SEQ ID NO:1388:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 548 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1388:

GAATTCCGCC TTCATGGCCT ACAACTTGTT CTAGCTTGTG ATCCCTCAA GTTGGGTCA	60
ACGTTAGTGC TAGATACTAG AAATTTCAC TTTTCCACTG ATCAGAGAGA CAGACATTAA	120

AAACAAAAAT AGAAGAAAGG AAAGCTTCA CCCTGCAGCT TCTTAGCAGG GAACAATTGT	180
CTTGCCAAA CTTTTTCCC TTTCTCTCC CATTTCCTT TACCCAATCC CTTCTTACTC	240
CTTGGCAGTG TGACCATGCG CATTGGTTTA AAAAGATATT CTTTCCTAAT CAGGCCAAGA	300
CAGGCAAGAA TTTTAAAAAA CGAAGGGAGG GAGGGAGAA GGGAGGAAA ATAATCCTT	360
TATTTTTTA AACCTATTG AAACCTCTTA AGAAAATTCC ACAATAATCA GGATTCTGT	420
AAATATTGTC AATATATATG AACATATTG AAAACTACA GTTACAGTAT ATTTACATT	480
TTGGAAACCT TTCTTCAGGG CCAAGTAACA TGTTGTATCT TCCTTTTGC TTGTGGGGC	540
TACTCGAG	548

(2) INFORMATION FOR SEQ ID NO:1389:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1389:

GAATTGGCC TTCATGGCCT AATATGTTCT TCACAGGGAT GAGTCCTAAA TATTTATCTT	60
CAGCCATGAC ATTTTTCTTG AATTCCAGAT TTGCATATCC AACTGCCAAC TTGATATCTC	120
ACTTGGAAAGA ACATCATCAC AAACCTAACT CATCTGAAGT TGGCTTCACA TTCTCCTCCC	180
CTATCACTAA CTGCTTITCC CACAGTATTG CCCATTTCGG TACATGGTAC CACCATTAT	240
CCAGTTGTTG AGACCTAAAC CCTTCTAATT ATTCTTTTC CTATCGTTAT CCCACATACC	300
TCGAG	305

(2) INFORMATION FOR SEQ ID NO:1390:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1390:

GAATTGGCC TTCATGGCCT ACTGGGTTAT TATTCTATTG CGTTGATCTA GCTAGTTTTA	60
AATTTCTAC CTTTCTTACG TGTTTTGTT TAATAGTTA CTGTTTTAT CTGACACAAA	120
TTCCCTTTTC AATAGTTGAT CCTGCTGAAT GTCTTCCCGT AGCATTGGGC TTCCCTCAGGT	180
AACCTGGCAT TTTGGTTTGA ATAGAAGGGT TTTTATTGTC CTTTTTTCT TTTTTTATT	240
TGAGATATTT ATCTTTCTT TATTTATTTA TTGAGTCGG AGTCTACTCG AG	292

(2) INFORMATION FOR SEQ ID NO:1391:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 217 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1391:

GAATTGGCC TTCATGGCCT AGGCAGTCGT ATTAATTCTC AAGAAATTTC CAACAAATAC	60
--	----

CACCTGGTTA ATGTTTCAT TAAGGGCACA CATTCTTGCT ATTGAGCCAA TGTTGTTGGT	120
GATGGTGATC AAAGTCGCTC TGGCCAGGTC CTCTTTACTG ACAGCCTCTC GCTTCTCCTT	190
GCTCATCATG TTTCAAAGC TTGAAGCCAC ACTCGAG	217

(2) INFORMATION FOR SEQ ID NO:1392:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 438 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1392:

CGGGAGGCTG AGGCAGGAGA ATCACTTGAA CCCGGGGGGT GGAGATTGCA GTGAGCCGAG	60
ATCAAGACAT TGCATTCAG CCTGGCAAG AAGAGGGAAAG TTCTGTCTCT AAGAAAAAAA	120
AAAAAAAAAA AAAGCTACAC TTTGATCTTT GATTCAGTAG ATATCAGTAA GTATTGCTG	180
CATTTCATGA GAGCCAACCA TGAGTAAGAC AGAAGTACTT CCTGTCCTCC TGGGCTTCC	240
TGACTAGCAG GAGAGATGGA CTAGGAAGAT GAGTGAATGAG AGTAGCCCTGT GCTGTTCTGC	300
GGTGTAGGGA GAGGCCACTG AGAGTCCCGA CAGGCAGGCT GATATTGTGA GAAGGCTTCT	360
GGAAAAGAAGG AACATTTAACG CTGAGAGTGA GAGTTGCGTA AGAATTCCC AGGGAGGGAA	420
AAGAGGGAAA CACTCGAG	438

(2) INFORMATION FOR SEQ ID NO:1393:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1393:

GAATTCCGGCC TTCATGGCCT AAAACTTCCT AGGAGAAGGC AAGAGAAAGC CACCAAGACCA	60
GAGCCGAGGA CTAAACTTTA AGGTCGAAGA CGGCAGAGGG GCAGGTTCTC CCCTGCACAC	120
CCCAAGGCTT CTCCCTGACCC CGCGAGGCTT TCCTTGAGGG CCCAGGGCCC CGAAATGCCT	180
GCCCTCCCTC TGACAAAAGG AGGGGGTAGG ATGTGAAGGG GTAGTGCACAC CAACAATGTT	240
TTTGTAACAA CAACAACAAG GAAATACTCG AG	272

(2) INFORMATION FOR SEQ ID NO:1394:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1394:

GTGAAATGT CAAATAAAAA TATGAAAATCT CAGCTGACAA GAGTAAATGT CCTTAAAGAC	60
AAAACAATTG AAGAGCTCAAG GCATCTTTA GCAAATGTG AAAGGATGAA AGAGAAGGCA	120
AATGTTGAAA CGATGAAAGA GAAGGCAGTT GTGAAAACAG AAAACTTGAA AACTACATTA	180
GACTCTGCAAG AGCAAAAGGC AAGATCAGAC AAAGAGAAGA CCCAGCAGAT GTTAGATGCT	240

GTCACTTCTG AGCCCCAAC AGCAAAGAGC GCACCTGAAG AAGTATCAGG ACAÀGAACAA	300
GAAGTACTCG A	311

(2) INFORMATION FOR SEQ ID NO:1395:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1395:

GAATTCCGGCC TTCATGGCCT ACTGTGTGCT TAGTTTAAA GACAACTTG AAGTAAACAA	60
TGAAATAAAA GATGTCACTA AAACCTCTGA GGCTCTGAG CACATTTGC TGATACAGTC	120
TGTGGGGCTT GAGGGACCG CATGTATTGT TCTTTCTTT GTTTTCTTC TGAGTCTCA	180
ACTGCCGAGA GCACCTGAAC CCCCTTCCT TTTTGACCAG AGGCTGCCT TTGGCCCCCA	240
GCCAGCCCTT TTTCTTTTC TTTTCTTTT GTGGTCTTC CCTGGAGCGA CTCTGGGGAG	300
TCCTGGATAT CCCGCTGCC CCTTCCCCTC AGCCCCATGC TTGTTCCAAC AGTCTCCACA	360
GCTCGAG	367

(2) INFORMATION FOR SEQ ID NO:1396:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1396:

GAATTCCGGCC TTCATGGCCT ACTTGAAAC GAAAGAGGGC CCAACCTACA ACTAAGAAGG	60
GACAAACCTT GAACTAGTA AGACCTTACA CACCCAGAAA GAACACTGGG CCCTCTTCT	120
TCAGGGACAA TGCACTAGCC ACTTGCTTG TGGAATTAC TGAAGGCTAT TTCTGTAAAC	180
TTGCTAGTTA ACTTAGTTT GTATTTCAAG CAGAGGTGCG CTCTGTAAATG TTGGCCTTT	240
GACTTCACAG TACTGGAGAG CTGTTCACAC AGATGTTAG ACCTTTCTCT CTCTCTCT	300
TTTCTCTTT CTCAACAAC TTTATCTCTC GAG	333

(2) INFORMATION FOR SEQ ID NO:1397:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1397:

GAATTCCGGCC TTCATGGCCT ATAGGCCATG AAGGCGAGAT ACAGCAGCTG CTGAGAACG	60
TCAAGTCTGA GTTGGAGATG GCCCAGGAAG ACCTGTCCAT GACCCAGAAAG GATAAATTAA	120
TGCTCCAGGC AAAAGTGTGAG GAGCTGAAGA ACAACATGAA GACCCCTGCTC CAGCAGAAC	180
AGCAGCTCAA GCTGGACCTA CGCCGCGGGCG CGGCCAAGAC GAGAAAGGGAG CCGAAAGGGCG	240
AGGCCAGCTC TTCCAACCCCT GCCACGCCCA TCAAGATCCC GGACTGCCA GTTCCCGCCT	300

CGCTGCTGGA GGAGCTGCTG AGACCACCGC CGGCCGTGAG CAAGAGCCCC CTCGAG 356

(2) INFORMATION FOR SEQ ID NO:1398:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 447 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1398:

GAATTCGGCC	TTCATGGCCT	AATTCTATGA	GGTATTATTA	TCACTATTTC	ACAGATGAGT	60
AAACTAAGGC	TCACAGAGAT	TAACTGGCAG	AACTGAAATT	CTCCATATCT	TTTGATTCC	120
AGATTTATTC	TCTTAATCAT	GATATGATTT	TGTCTCATAT	AATCCAATAC	AATAAATAAG	180
GAGGTCAAGG	AGTAGGAGGT	GAAGTTGGAG	AACTGGGAG	ACCTATCAGG	AGGGGTCAATT	240
TATGCCTGGC	TAGGAGTTTG	GACTTATGTC	TGAGGCTATG	GGAGCACTAT	TAAAGTGATT	300
CTAGCACTGC	AAAGTTATGA	TTAGGTTTAT	CAGCCAAAGG	AAAAAAAAG	ATCTTGGTGG	360
TCACAGTGCA	GGTAGATACG	ACATAATCGA	GAATATGTGAA	GAATGCAGAA	TCAAGAGTTT	420
GGTGTGGAC	AGAGAGAGGA	ACTCGAG				447

(2) INFORMATION FOR SEQ ID NO:1399:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 428 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1399:

GAATTCGGCC	TTCATGGCCT	AATTGAATTC	TAGACTCTTT	TAAATTTCT	GCATTTGCCT	60
GAAAAGCACC	CCTGTAAGAA	TAGATTTCTC	ATGGCTCTAA	AAATTATTCC	CAAGAATACC	120
TTACTTGGTT	CAAAGCAGA	CTGTTCTCT	TCACTTCATC	TCAAATCAGA	CTTCTGGCA	180
AGATGTTCTT	TAGAGTAAGC	AAACCTACAA	CCTAAAAATC	TCTTCAGAG	GCATCTCTGG	240
TCTTGTGACA	AGACCTCTTC	AAAACCCAC	AGTAAAATC	CCCTCCCTCC	AGTTGGCCAC	300
CAGTCTGCCA	CCAAACATGA	ACAAATTCTG	CTGCTAATCG	GTTTCCCTTG	TGATCTGGTT	360
CCTGAGGTCT	TCGGATCTGT	GCAATGAATT	ATTATTTGTT	TTATTAACC	GACAGTGGTG	420
TGCTCGAG						428

(2) INFORMATION FOR SEQ ID NO:1400:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1400:

GAATTCGGCC	TTCATGGCCT	ACTAGACCTG	CCTCAGGGTG	TTCTGTGGTT	TCAGGTGGAA	60
GGTGGAGGGC	CTCGGAGACC	AACTGTGAGT	TAGCCGGGTT	TTAGAAATCTG	ATCGGAAGAG	120
GGCAGAGACA	ACAGGTTCGA	AAGAGTCAGG	GCTCCTGGGA	CCTGGGAAGT	AAAGAGTAAA	180

CCTGGGGCAG TGGTCAGGC CAGTAGTTAC ACTCTTAGGT CACTGTAGTC TGTGTAACCT	240
TCACTGCATC CTTGCCCAT TCACCCCGGC CTCGAG	276

(2) INFORMATION FOR SEQ ID NO:1401:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1401:

GAATTGGCC TTCATGGCCT AGCCACCGTG CCTGACCTAC TTATTCTTT TCCTGTTAG	60
CATCTAGTGT ATGATACGAT TTGCTTATTT GTTTATGTTT CATCATCTGT TCCCCACCCCT	120
CAGCCCTGGC CCCCTTGCTG GAACGCAAGC TCCAGGCAAA GCTATTTAC CGTTGCTGTT	180
TTCCAAGGGC CTCGAACAGT GCCCGGCACA TAGCAAATCC TCAGTGAACA TTAGAGGAAT	240
AAGTGATTCA AGAATAGAGC TGTTAGAAGG TGTTCTGGAG GAAGACGCAT CC GGCTTCAT	300
CCCTGGCACCC ATCGAG	316

(2) INFORMATION FOR SEQ ID NO:1402:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1402:

GAATTGGCC TTCATGGCCT AAATTCTCCA GCAAAATGAG GATGAAAACC AGGAAAGAAG	60
AAGAAATGGG ATCCATAAAA CAGTGGACCT TACTTAGGAT GTCTCATTCT AGAGTGACAG	120
CCAAAAGGGT ATCTCACCCCT AGAGTGACAG CTATCCAGCA GACTAATTG AGATGAGAGC	180
ATACTGTCTC GGGCTTCTG GGAAGAATGT GCATTCACTG CCATAGATAG TATCACTGAA	240
GAGCTGGAT GCTTGAGAAG ATTATTTAGT CAAGAAAAAA GAAAGACAAA TCAACAATAT	300
GTCAAAAAAT TCAGGTCCAA TTATAGAGCA AAAGGGCTCG AG	342

(2) INFORMATION FOR SEQ ID NO:1403:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1403:

GAATTGGCC TTCATGGCCT AAGGCTAAA AGAAGGAAA AGAAAAGGAA AAAAGGAGG	60
AGGAGAAAAT GGAAGTGGAT GAGGCAGAGA AAAAGGAGGA AAAAGAGAAG AAAAGAAC	120
CTGAGCCAAA CTTCCAGTTA TTGGATAACC CAGCCCGAGT TATGCCTGCC CAGCTTAAGG	180
TCCTAACCAT GCCGGAGACC TGTAGATACC AGCCTTCAA ACCACTCTT ATTGGAGGCA	240
TCATCATTCT GAAGGATACC AGTGAAGACA TTGAGGAGCT GGTGGAACCT GTGGCAGCAC	300
ATGGCCAAA AATCGAGGGG GAGGTAACTC GAG	333

(2) INFORMATION FOR SEQ ID NO:1404:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 422 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1404:

GGGCCCTGGG	CCCCAGCCC	CAGCCCATCC	GTGGCCCAGG	CACTGGGGGG	CTGAGGTCCT	60
CTGAGAAAGGG	ACACAGGGCC	GGGGGGCTCT	CTCAGCCCAT	CACCAGGAGA	GGACTGACTC	120
CAGAAAAATC	AGCGTTTGTA	CCCACTCAGG	CTGCCAAGAC	CTGTGTCCGT	CCTTCCAAGC	180
TCAACCTTCA	GAGTTCATGA	GGCCCTTGC	CCAGAACATGC	CACAGAGTTC	ATGAGGCC	240
TTGCCCCGAA	TGTCCACATT	TGAAACCTCC	CAACACCGAG	CCCCATTCA	AGTATAACCA	300
GGAGGGAAAA	TGGTGTCTGA	AATAAGCAGT	CCACAAAGGA	AAACCTGTT	TCTCGAAATG	360
GGCCCTGGCC	GCCCAGGCC	TGACCTCCCC	GGCCAGGATG	GAACGTTCCA	GAAACCCCTCG	420
AG						422

(2) INFORMATION FOR SEQ ID NO:1405:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1405:

GAATTCCGCC	TTCATGGCCT	ACTGGGGTCC	AAACTGGATA	TCTTGGTGG	GAACATGGGG	60
AGGCTCAGCT	TTGGGTCTAA	CAGCAGTGAC	TTCAAGGGCC	TGTTGAAGCC	ACCAATTCTG	120
GGGCAAACAA	TCCTTACCCA	GTGGATGATG	TTCCCTCTGA	AAATTGATAA	CCTTGTGAAG	180
TGGTGGTTTC	CCCTCCAGTT	GCCAAAATGG	CCATATCCTC	AAGCTCCCTC	TGGCCCCACA	240
TTCTACTCCA	AAACATTCC	AATTTAGGC	TCAGTTGGG	ACACATTCT	ATATCTACCT	300
GATGGACACT	CGAG					314

(2) INFORMATION FOR SEQ ID NO:1406:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1406:

GAATTCCGCC	TTCATGGCCT	AATTGAATT	TAGACCTGCC	TCGACTGCC	CAAACCTGAC	60
CCATCCTCAG	ACCCCCACCC	CGGTCACCGC	TCCTCCCAAT	GATTCCCTCC	TCTGTCAGTC	120
CTGCTCTACT	TTCCCAAATCC	TCGGCTGCTC	CAAACCTGAC	CCATCCTCAG	ACCCCCACCC	180
CCGTCACCGC	TCCTCCCAAT	GATTCTTCCT	TCTTGATCC	TGCCAACCTT	TCCCCAACAG	240
CACCGTAATC	CTCCCCAAA	TCATCACAAAT	CCTCCACCAT	ACAATCCCGC	GTTCTCGAG	299

(2) INFORMATION FOR SEQ ID NO:1407:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 199 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1407:

GAATTCTAGA CCTGCCTCTC GCTGGAAATC AGCGTTGTAAGATGGACGCC CTGCTCAGCA	60
GAGCTCATCT TTCTAGAAAG GCACCTGGCC TTGGAAGGCC AGTGAGGAAC TGTCATAAGG	120
ACTTTTCTT CCCATGTTGC TTTTCAGGAA AGCTTCAGG ATGTGGAAAT GATGGTTCAG	180
CTATTGGATG AGGCTCGAG	199

(2) INFORMATION FOR SEQ ID NO:1408:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 220 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1408:

GAATTCGGCC TTCATGGCCT AGTGATCCAG AAGAATTACC ATTAACCTTA TTTCAGAATT	60
TAGACTTCCA AATCAGGTTA ATCTCTCAAT TAAAAGAAAG ATTCAAGAGTG AATTTTTAA	120
AAGGCAAGGC AGTTATATGT TGCTTACAAG AAACCTAAACA TAAAGGCACA GATAAGTTGG	180
AAGTAAGAGG GAAAAAGACA TGCAGAACT AAGTATAGAG	220

(2) INFORMATION FOR SEQ ID NO:1409:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 235 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1409:

GAATTCGGCC TTCATGGCCT AGATAAGCCC TTCAAGAAACA CATGCACTGT TAATTCTGTT	60
TTAAATATAA TAAAAAACAT TTCACTTTGA CATTACCTAT TAAGTTTAC TGAAAGTCAA	120
AAGGCCTACT TACTGTGACT TCCAAAAAAAG TATTTTGATA ATATTTGAA AGAAATAAAAT	180
AATTTCCCTT TGCATGAAAT TAAAGCCAT GATAATAGGG AAAACATTAC TCGAG	235

(2) INFORMATION FOR SEQ ID NO:1410:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 577 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1410:

GAATTTCGGCC	TTCATGGCCT	ACCCACGTA	CGGCTTGCT	GGGCACCCCC	GCTTGGCTG	60
GTGGTCCTG	TTTGGATTGG	CTTACCCCTG	GCATTCCTT	GCTGGGCTT	ACCTTTCTT	120
GCTGGGCTT	GCATTCCTC	GGCTGGCTG	GTGTTTCCC	CGGTGGGCCG	TGCACTTCC	180
CTGGGTGCTG	GAGGGGGCGT	GGGCTCTCCC	CGGCTGGTGG	GGGGACGCTG	GATCTCCCCA	240
GTTGGTGGT	GGGGAGGGGT	CGTGGGCTT	CCCAGGGTGG	GGTTTGCTG	GGGATTGACC	300
TTTCTCCCT	AACAGATTGG	AAACTCGTA	TTTCCCCTT	TTTGGTGAAA	CTCGTTGACA	360
GACACCAT	GCTCGTACT	ACCAGGCTGT	TGAAAGCAGA	TGGTGGCTGA	GGTTTCTCCA	420
AAGCTGGCTG	CCTCCCCAT	GAAGAACCCC	TTTGGCTCA	GGGGCAAGAT	GGGCAAGTGG	480
TGCTGCTGCT	GCTTCCCCCTG	CTGCAGGGGA	AGCGGCAAGA	ACAACATGGG	TGCTTGGAGA	540
GACCACGACG	ACAGGCCCTT	CACGGAGCCC	ACTCGAG			577

(2) INFORMATION FOR SEQ ID NO:1411:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1411:

GAATTTCGGCC	TTCATGGCCT	AGGGATGCCT	CTCAGTGACC	CTTATATGTC	AGGTATGAGG	60
CGGATGGGGC	ATCTCTCTAG	TCCTTTCTAG	GTGTTTACT	CTTCTAGTC	CTTCAGGGC	120
TGAGTGCCT	GACTTTATGT	CTTCCCACGT	AGGCAGTTGAC	CCTGCACTAT	CAGATCCTGT	180
GTTGGCCCGG	CGCCTTCGGG	AAAACCGGAG	TTTGGCCATG	AGTCGGCTGG	ATGAGGTAT	240
CTCCAAATAT	GCAATGTTGC	AAGACAACCC	TCGAG			275

(2) INFORMATION FOR SEQ ID NO:1412:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 532 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1412:

GAATTTCGGCC	TTCATGGCCT	AGTTTTATTT	TGCACTTGGA	AATATGTCAG	AAATCACCTG	60
AAGGCAAATA	AGATCTGGCC	CTCTGCAGAG	TTAAGTGGCT	AACATGCCCT	AGATCTCCAG	120
GCTTAGGGC	TGCCCTTTG	GTACCCATGA	TTCTCCAGGG	CTTTCCAGGG	CAACATTGTC	180
CAGCATCTCT	CTCTCTCCTC	CGCCCGTCTT	CTTTGGAAAG	TTTGACTCTC	ATGTGTGGTG	240
CCCGATCCCT	AGGCCACCTG	TGCCGGCCAG	CCCCGTAAACA	GATAAACTCT	ACTAAAGGTT	300
AATCCAAGC	ACAAGCTTG	GGCTGGTCCT	TCTGGTTGA	TTGGCTTCT	CTCTCTCTCT	360
CCTTTTTGTA	GATGGAGTCT	CCTCTGTGCG	CCCAAGGCTGG	AGTCAGTGG	CACAATCTCG	420
ACAATCTTGG	CTCACTGCAA	CCTCTGCCTC	CCGGGTTCAA	GCAATTCTCC	TGCCTCAGCC	480
TCCTGAGTAG	CTCGGATTAC	AGGTGCCCGC	CACTGCTTCT	GGCATACTCG	AG	532

(2) INFORMATION FOR SEQ ID NO:1413:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1413:

GAATTCGGCC	TTCATGGCCT	AGGCATCCAG	GACAAAAGTT	TGGAAAACAA	AATAATGGAA	60
CTAAATAGTA	CTAACCAAAG	TATAGGGTGC	TTTATGATT	ACAGAACTCT	CTTACAGGCA	120
GTATGTTGTT	CAGGCGCCAC	TAGAACCCAC	GTAATGGCAG	AGGCTTCCTG	TTCCATGTTT	180
AAAAACCTTT	CCAAGGCTTT	TCATTATTTT	CTTATCTGTG	GTACCCCTAG	CTTCCCTGTGC	240
TCTAGACACA	CTGGCCTACC	TTCAACTCC	TTGACCAGTG	TAGCTTACAG	TGTAACTTA	300
CCCCCGGCC	CCACCCCTCGA	G				321

(2) INFORMATION FOR SEQ ID NO:1414:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 457 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1414:

GAATTCGGCC	TTCATGGCCT	ACATGAACGG	AAGAGTGGAT	TATTTGGTCA	CTGAGGAAGA	60
GATCAATCTT	ACCAGAGGGC	CCTCAGGGCT	GGGCTTCAC	ATCGTCGGTG	GGACAGATCA	120
GCAGTATGTC	TCCAACGACA	GTGGCATCTA	CGTCAGCGC	ATCAAAGAAA	ATGGGGCTGC	180
GGCCCTGGAT	GGGCGGCTCC	AGGAGGGTGA	TAAGATCCTT	TCGGTAAATG	GCCAAGACCT	240
AAAGAACCTG	CTGCAACAGG	ATGCTGTAGA	CCTCTTTCGT	AATGCAAGCT	ATGCTGTGTC	300
TCTGAGACTG	CAGCACACGGT	TACAGGTGCA	GAATGGACCT	ATAGGACATC	GAGGTGAAGG	360
GGACCCAAGT	GGTATTCCCA	TATTTATGGT	GCTGGTGCCTA	GTGTTGCCA	TCACCATGGT	420
AGCAGCTGG	GCTTCATGA	GACACCGGCA	ACTCGAG			457

(2) INFORMATION FOR SEQ ID NO:1415:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1415:

GAATTCGGCC	TTCATGGCCT	AAAAATATCT	AGTCACTGTT	CTGTTTTACC	CATTCTTTA	60
AACTTTGTTT	TTCAGTTTCA	GTCAGGCTTC	CAAGAAAAC	GATAACATT	TGATTGGTTG	120
GTTTCTTTA	TATCTTTTC	ATTCACAGT	ACATTGTGAT	TTAATGATT	ATCTCTTAAA	180
TCTTTTCAG	TTCATAGGTT	CCTCCTGTCT	CTTTCTTTT	CCTTGCACTT	CATTGTTGC	240
AGAACCTTTG	TCCCTGTGGTT	TGGCACAGTC	TGGAGGAATT	GGGGAAAGTG	GCTGTCTAAA	300
CTGGTTCCCT	CCTTCCCATT	ACTGCTGCAA	TCAAGATGTT	AGGGGCCCTA	CAAGCAATAG	360
AAGCATCCCTC	GAG					373

(2) INFORMATION FOR SEQ ID NO:1416:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1416:

GAATTGGCCT TCATGGCCTA GTCATTTGCT TTTATATCG ATATCTAATT AATCAAAC	60
TCTGGTTAACG TGCCTCCAAT TATTAACAAT CCTGCTCAGA GTTAAGATTA GCATCCAAGG	120
ATTTTCCCTCC ATATTTCTTT TCAGAGGCAA TGGAATTAC TAGTTTTTTA GCTCTTCAC	180
TTTGGCTGAT GGTTTAGTG GTGGTTATGC TATCTTCAGT AGTTGGGGA TCGCTCCAG	239

(2) INFORMATION FOR SEQ ID NO:1417:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 308 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1417:

GAATTCCGCC TTCATGGCCT AAGAAAGGT AAGTTACTTG CCTGAGGTAA CTTAGCATTG	60
ATAGAATTAG GATTGAAACC TGGGTAGTAT GACTCTTAGG TCCCCATGAG CTGGCACACACA	120
GGTTGCCAAT CCATCACTTA ACCTTCCCAT CACTGGGTCA GAGAGCCAAG GAGCAGAAGG	180
GGGATAGAAC TTCCCCAGTA CCAAACTAAG GGGCTGAGCT GGGATCGCAA CCACAGGTT	240
TGTTCCAAAG CTGGGGCTCT TTGACAGG CCATGCCGC CTTGTCTCTT ATGCATGCTC	300
CACTCGAG	308

(2) INFORMATION FOR SEQ ID NO:1418:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 174 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1418:

GAATTCCGCC TTCATGGCCT AAACAAACAA AAAAATGT TTTATATGCA AAAGTTTTTT	60
GTATCATGCT TGTATAAAC TCACTTTTT TGTATCATGC TTGTATTTTT TTTTCTAGC	120
TGTTATTGCT TTTCTGATAA TAGTACTGAA TTTGGTGTAA TGGCTGGTCT CGAG	174

(2) INFORMATION FOR SEQ ID NO:1419:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 234 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1419:

GAATTCCGCC TTCATGGCCT AATTITATAT TATTGTTAAA CACTGGGCTG GAATTATTGT	60
TTTGGGAAAA GGCCCAGAG AGTTTTGCT CTGTGGTTT TTAAAGGTAA GAATAAATT	120
CGTGTGAG ATGTTTGAG TGTGCCTGTA ACCAGAACAG AAGTGTCTA GATTATAACT	180
TTCTCTCAGA TTGAGTAATT CTGTTGTAAT AAGTCAGCAT ATGTTGCCAT CGAG	234

(2) INFORMATION FOR SEQ ID NO:1420:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 157 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1420:

GAAAATATTT TTACTTTAT AATTGATAGT ATTTCTTAAC TCTCAATTAA AAAAAGTTT	60
TAAGCATTTC TGTGATATAG ATACTATCAT TTCATATTAC ACAATGCTTC TGATGATTT	120
GCTGTTGTTG TTAGGGACTA CTCGAGGCAG GTCTAGA	157

(2) INFORMATION FOR SEQ ID NO:1421:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 495 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1421:

GAATTCCGCC TTCATGGCCT ACCAGGATGA GAGGGGAAAA AGAAAGCTC CAGTGACTTC	60
AGTTGCTTTC CCAGTTGTCT TGGGATTGTT TTACACCATC CTTTACTTCC CTTGCTCAGA	120
CCTCTCTGTT TCACCATTC TCAGGCATTC AGGAAAGTAT CTGCTCACTC CCACTTGGTG	180
AGTCCTCCGC CTTGAGGGTTG CTGACTCTCA GGCGTTAGGC AGCTGGATGA CTTCCCGCTT	240
CATGCAGCAA AGGCCAGGGG CTTGCGCGCC TCTGCAGAGT TGTTGCTAGG GAGACTTGTG	300
TCATCATCCA CAACCTTGT TCTCACTTCC TGGTTGGGCT CATCTCTGAA GAACAGGTCT	360
CCCAGCTTCC CTCCCTTATCA CTGCATTGTTG AAGAGGAGGA AAAGTGAATC ACGGAGAGAG	420
AAAGGAAAGG ATAGAATCAC AGGCTGCATC TGCACCTGAA AAGTGACCCG CGGAAACTCT	480
ATGGCGGATC TCGAG	495

(2) INFORMATION FOR SEQ ID NO:1422:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 449 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1422:

GAATTCCGCC TTCATGGCCT AGACAAAAGT AGAATTAGTA AACTACTACA TTGAGTACAC	60
TTTGTGTTAA AATTCACTAGG GAAGACTTCT TAAAAACAAG TGAAATTGTT AAACCCCCC	120
CTAACGATTA CAGATGGCTT ATAGCTGTCC ACAGGGTTGG TAGAGGTGGG AAAGGAAAGG	180
GTTCCTAGGCC AGAATGTTCC TATTTAGAAG ACACCAAAT TACAGTCTGT GTTATGTATG	240

TATACCATT ATTCAATGCT ACTGTGTATA TAATGGAAAA CTTAAGTCCA GTTTGAAACA	300
TCTAGTCCTT CTAGGTGTTT AAAAGTGTAC AACAGCCTGT CGCAGTGGCG CATGCCTGTG	360
GTCCCAGCAC TTTGGGAGGC CGAGGCAGGC GGATCACGAG GTCGGGAGAT CGGGACCATC	420
TTGGCCAGCA TGGTGAACCC CCTCTCGAG	449

(2) INFORMATION FOR SEQ ID NO:1423:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 306 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1423:

GGGAGTTAT TATTCAATTAA CGAAATTAGC CCTTTTATCT GCCATATAAT TTGCAACAAT	60
TTTATATCAG CTTTTTTATT GTCTTTGGC TGGTGTATC AAAGTTATGG CCATGCAGAA	120
ATGTGGGATT TTATGTAGCA CAGTGTCTC TTTTTTTTTT TTTTGAGACG GAGCCTAGCT	180
CTGTCACCCA GGCTGGAGNG CAGTGGCATG ATCTCGGCTC ACNGCAACCT GTGCCCTCCA	240
GGTTCAAGCA ATTCTTCAGT CTCAGCCTCC CAAGTAGCTG GGACTACAGG CGCCCACCCC	300
CTCGAG	306

(2) INFORMATION FOR SEQ ID NO:1424:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 362 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1424:

GAATTCGGCC TTCATGGCCT AGAACTTTGT ACACCATGGA ATGTTCTACT TATTATTTG	60
TGCTACAATA TGTGCTGTTT CTTTGTGTTG AATTGCAGAT TGTCTACTAT GAAGCAGGGA	120
TTATTCTATC CTGTGCTCTG GGGCTGCTGT TTATTATTC GATGCCTCTG GTGGGGTATT	180
TCTTTTGAT GTGTGCTTGC TGTAAACAAAT GTGGTGGAGA AATGCACCA CGACAGAAGG	240
AAAATGGGCC CTTCTTGAGG AAATGTTTG CAATCTCCCT GTTGGTATT TGTATAATAA	300
TAAGCATTGG CATCTTCTAT GTTTTGTGG CAAATCACCA GGTAAGAACCG CGGATCCTCG	360
AG	362

(2) INFORMATION FOR SEQ ID NO:1425:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 194 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1425:

GAATTCGGCC TTCATGGCCT AGTATATCTG AAAAGTACAC TGTGTTTGA AATTATAAAAT	60
TTTCATTCTG AATGAGGTTT CTTTTTTTGA TTTTCTTTAA AAAAAAAAAA CAACCTGCTT	120
TGATTTGCTT TACATTCCCTT GCCCTCCATT TTTCTTATTA TATTGTAAC ATTAGAAAAA	180

TGAACACCCCT CGAG

194

(2) INFORMATION FOR SEQ ID NO:1426:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 393 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1426:

GAATTCGGCC	TTCATGGCCT	AGCCATGTAT	TTTCTAAATAT	CCCTTGGACT	TCATCTTGAG	60
CTCATGTTT	ATTTGAAGT	ATTGGGATTG	TTTTCACTT	ATCTTTCTGT	TATTATTTCT	120
ATTTAACCT	GTTATGGTCA	TACAACATAA	TTAAATTCT	TCTAAATTG	TTGAGGATTG	180
TTTTTGTGC	CCAGAATATG	ATGAATCTCT	CATTGAATGT	TGTATGTGCA	GTTAAAAGAGA	240
ATGTTTATTC	TGCTGTTGGT	GGTAAAGTG	TCATGAATAT	AATTAGGAGA	AATTAATGAT	300
<u>AGTGTAAAGG</u>	<u>TTTCTATAT</u>	<u>CCTGCTTT</u>	<u>TTGGTGTACT</u>	<u>TATTTATTG</u>	<u>ATTATTGAGA</u>	360
GAGAAGGGTT	GAATTATCTA	GGTGCACCTC	GAG			393

(2) INFORMATION FOR SEQ ID NO:1427:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1427:

GCGATTGAAT	TCTAGACCTG	CCTCGAGCCA	CCCCGTTAAT	GTGTGTGTTG	ACAGTGAAGT	60
CCTTGGGTGG	GGCCATGTGT	GTGTTGTGA	TGTTCTTAA	GTTGATGCAG	CTTCTCGAG	119

(2) INFORMATION FOR SEQ ID NO:1428:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1428:

GAAAAAGCAG	TAAAATAGA	AATCCATCTT	CACCAAGCCT	TTAAAGCAAT	ATAAATTAT	60
ACTGAGGTTTC	CTGCATACTA	TAACACACAG	AAGGAATTCC	AAAAATGTT	CTTTATCCAG	120
CTGTCTACCC	AAAGTTCTAT	CATCCTGGCA	AACTGCTCTC	TCCAAAATTC	ATCATCTTGG	180
ACTCTCTCTG	AAACTCCAAC	CCTCTCTCT	TATACCCTGT	TCTCCAACAT	TCGAATTGTT	240
TTAGTTGTC	TTCTTCTAA	TATACTTATT	TCTGTTTAC	ATTTGAGCT	CTGGAACCTCT	300
AACCACTACT	TACCACCAAA	ACTCGAG				327

(2) INFORMATION FOR SEQ ID NO:1429:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1429:

GAATTGGCC TTCATGGCCT AATCACATAT ACACAATTAA CCCATTCAA GTGTACACGT	60
AGTGGTTTA GTATATTTAC AGATAGGTGC AACTATCACC ACAGTCAAAT TTAGAACCTT	120
TTCATCAACC CCAAAAGAAA CACCATACCC TTTAGGTATC GCCTCCCTA TACTCACCT	180
TCCAACTGCT GAGCCTAAG TTACCACTAA CCTTCCTATC TCTATAGATT TCCTTATTCT	240
GAACTTTGA ATGGAATTAC AGTATCTGGT CTTTGTGCC TGTTTTTTTG TGACTAATGT	300
TTCAAGGTTT ATCCAGGCC CTCGAG	325

(2) INFORMATION FOR SEQ ID NO:1430:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 226 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1430:

GAATTGGCC TTCATGGCCT ACCTAAACCT GGCAAGACT ATCATGCCCT CGAGAAGAAA	60
CGTCATTCGA CTCCCTTGCC GAGCACTGCT GTACCAAGCC ATACACCTGG CAGCAGCCAG	120
CAGTCCCCCGC TCAACAGTCC TCACCCGGGG CCCATCCGGA CAGGCCTGCC TCCTGGGCAC	180
CAGCAGGAAT TTGCGGGACG AGCCAACAGC ACCTCCAACC CTCGAG	226

(2) INFORMATION FOR SEQ ID NO:1431:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1431:

GAATTGGTT CATGGCTAG GATTAACAC TTGGAAAAGG CCTATGATAC TCCTGGTAAA	60
CCTCTTTGTC CTGCTCTG TGTTTGTGT CCTCTTAAAT CTAGCTGGAT TTATCCTAGG	120
CTGCCAAGGG GCCCAAGTTG TGTCAGCGT GCCCAGGTGT GATCTGGTGG ACTTAGGTGA	180
AGGCAAGATT TGCTTCTGTT GTGAAGAATT TCAACCAGCC AAGTGCACAG ACAAAAGAAAA	240
TGCCCTGAAA CTCGAG	256

(2) INFORMATION FOR SEQ ID NO:1432:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 240 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1432:

GAATTCCGCC TTCATGGCCT AGGTTGCGGT GAGTCGAGGT CTGCACTCCA GTCTAGGTGA	60
CAGAGCCAGA CCTGGTCTTT AAAAAAAA AAAAAAAA AGTGAATTCA AAAGATTAGC	120
TAAGACAAAT TGGGAAAAAA AACCAAAAGG GGAGTTGACC TAACAGATAT TAAGATGTAT	180
TTCTAAAGCC ATAGCAGCTA AAATAGTACA GTATTAATGT AGGGACAAAC AGAACTCGAG	240

(2) INFORMATION FOR SEQ ID NO:1433:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1433:

TCATTCTGAA CAAAAGGGAT TAGAGAAGAA AAATCTCTTG ATATAAGGCT TGAAAGCAAG	60
GGCAGGCAAT CTTGGTTGTG AATATTTCT GATTTTCCA GAAATCAAGC AGAAGATTGA	120
GCTGCTGATG TCAGTTAACT CTGAGAAGTC GTCCTCTTCA GAAAGGCCGG AGCCTCAACA	180
GAAAGCTCT TTAGTTCCCTC CTCCCTCACC GCCACCACCA CTCCCTCGAG	229

(2) INFORMATION FOR SEQ ID NO:1434:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1434:

GAAATTGAAA CTCAAATCAG TTAGCTTCAA ACAAAAACGA AAGTTAGACC AAGGGAACGT	60
ATTAGATATG GAAGTAAAGA AAAAGAAACA TGATAAACAA GAACAGAAAG GAAGTGTGGG	120
AGCTCACATTC AAATTAGGTG ACTCTTTGTC AAACCCAAAC GAAAGAGCCA TTGTTAAAGA	180
AAAGATGGTA TCAAATACTA AGTCTGTAGA CACGAAAGCG AGTTCATCTA AATTAGTAG	240
AATTCTAACT CCTAAGGAGC ATCTCGAG	268

(2) INFORMATION FOR SEQ ID NO:1435:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1435:

GAATTCCGCC TTCATGGCCT ACAAGACTGT CTCAAAAAGA AAAGAAACAC AAATATTTGA	60
ACTCCAAATA TTCTTTGTGT GTAGAAAAAT CTAATGGATA ATTAAAACTA GAGCAGAGAG	120

AAAAGCCTAG GAGTTGAGAG ATTTTTAGAT ACGTGACTGA AAAGATTGGA AAAGGCTATC	180
AGTTTTAATG CTTGTGTCTG TCTTGTGTG GCCCATGGTA TTTTGGAAAGA GCACCATGGA	240
GCTCGAG	247

(2) INFORMATION FOR SEQ ID NO:1436:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 258 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1436:

GAATTCGGCC TTCATGGCCT ACCTATTTGT GCATCAAGTG GTTATCTAAA TAGTTTGA	60
GGATTGATAT ACTACATTG ACGTAAAAAA TAAATAAATA AAATTAAGAA GACAGGGATT	120
CCAAGATGT AGCTGACCA GCTGTCTGT TTTGCGTACA TCAACACTAT GCTGCTTCCA	180
ATATTCCTAG CCATTCACAG GGTAAATGATT TTTCAACAAAT CAAGAGAAAG TCATTCTTGT	240
ACTGTAACAT CTCTCGAG	258

(2) INFORMATION FOR SEQ ID NO:1437:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 415 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1437:

GAATTCGGCC TTCATGGCCT AAATCACTTG GATTGGTTCT CTACTTAAAA CACAAGCTAG	60
CTACCCAGTC TTGTATTTTG TATTTTTAAG AATTGTTAAA AAACTAATTT TGTTTTGTAT	120
TTGTGTAAG CATAGTCATA ATTCTAAATC AAACACACTG CATCGAGTTT ATCACTGAAA	180
TTCAGCATCT GCTTTGTC TCACTTTGTT ATCTTCTGCT CTCATCGATT ACAGGGGTGA	240
CCCACCGGCC CGGGCGGTAT GTTCCATTACC CTTAAGGACA AGAAATACCG TTTGAAAACA	300
TTCTCTTGA ACATTAACAA ACTTAGAATG GTACATTAT TTAAGAATTA AAATAGGCAC	360
AAGAGGATTG AATTTGGAA ATATGTTGCT TAGAAATTG GGGCAATTC TCGAG	415

(2) INFORMATION FOR SEQ ID NO:1438:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 267 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1438:

GCGATTGAAT TCTAGACCTG CCTCGAAGTG CCAGCAGCAG AGGAGATGAC AGTGACATAT	60
ACAACAGAGG CTGGGGTGGG CACTCCAGGA GCCCTGGAGC GGAAGACCTC AGGGCTAGGA	120
CAGGAGCAAG AGGAAGGGTC AGAGGGCCAG GAGGCAGCCA CTGGGAGTGG CGATGGGAGG	180
CAGGAGACAG GAGCAGCTGA AAAATTCCGA TTAGGATTAT CACGGGAGGC AGAGAGGGAA	240
TTGAGTCGG AGAGTCTACA GCTCGAG	267

(2) INFORMATION FOR SEQ ID NO:1439:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 301 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1439:

GCGATTGAAT	TCTAGACCTG	CCTCGAGTC	TATCCCTGAG	CAGTAGAGTA	AATTAAATCC	60
TTTCTGAGAG	TCTTAGATGT	TTTCTCTATGT	CTCTCTTTC	TTATTCTCTC	TCTGTTTCTT	120
TCTCTCACTC	ACACACACAC	ACACACACAC	ACACACACCC	CTAAAATTTG	TTCTGAATGG	180
CCCACTAGGG	CTGAATCATT	TAGTGACTTC	ATTGATTACT	ATCCTGAGTT	CTTCTTCCTG	240
CTTCCAGACT	AGTGAAAATA	TTCCAGAAAAG	CTTTAATATT	GGAGAAMMAGG	CAAGCCCTCA	300
G						301

(2) INFORMATION FOR SEQ ID NO:1440:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 251 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1440:

GAATTCCGGCT	TCATGGCCTA	GCATTTGGAA	GTAATTTTTT	AAAACAACAT	TCATATTAAT	60
TTAAGGAGCA	TAACAGATTC	CAGTGAAATGT	TATGATTCGC	TATTGTAACA	TTATTCTAGT	120
AAATATGTTG	GAGAAGAACAA	GTTCAGTGA	ATTAACATATG	GTTTGGAAAG	GCAGCTATGC	180
TCACCATCAT	ACCACCAACAA	CAACCATGGT	TTTATTTAT	ATTATTATT	TTATTTTGAA	240
GACAGAGTCT	C					251

(2) INFORMATION FOR SEQ ID NO:1441:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 274 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1441:

GGAAATTGGAA	AGCGTTTCCT	TGCCAACACC	AGAAATCCAG	TCAGATTTCT	TACATAGCAA	60
AGTCGAAGCT	CCTCCTTCAG	AGGTGGCGGA	TACGTTAGTA	ATAATGACTG	CTTCCAAGGG	120
TGTTCGACTC	CCAGAACCCA	AAGATAAGAT	TTTGGAGACA	CCTCAGAAAA	TGACAGAAAA	180
ATCTGAATCA	AAGACACCAG	GAGAAGGGAA	AAAGGAAGAT	AAAAGCAGAA	TGGCAGAAC	240
AATGAAAGGC	TACATGAGAC	CCACCAAGCT	CGAG			274

(2) INFORMATION FOR SEQ ID NO:1442:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 274 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1442:

GAATTCCGGCC TTCATGGCCT ACCTTTCTCC ATGTTTAAC	60
GGGCTGCTCC CCATTCTCTG	120
CCTCCCTGTC TCCTCAGCCG CCAGAGCCCA GCCCCCTCCGA	180
CCAGGCCCTCA CCCACCCCCA	240
CCCGACCCCTT CCCTGAGGGT CCTTCCCTCA GTACCACTGA CACTTGAGG CAGGAAACCC	274
AAACCTCCTT AACTAAGGCC TCATTCACCT CGAAAGCAGT GGTGCTTCCC TCTGTTCATC	
CAGGGCCATA AAGCCACTGT CCCCTTAAC	
CGAG	

(2) INFORMATION FOR SEQ ID NO:1443:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 257 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1443:

GAATTCCGGCC TTCATGGCCT AATTGCGCCA TTGCACTCTA GCCTGGGCGA CGGAGCAAAA	60
CTCCATCTCA AAAAAAAA AAAAANN NANTCNGAAA CAGAAAAAAA AAAAAAGAATA	120
CACTGCATG CCATTATCTA GTCACCCCTGT GTAATATAGC AGCAGAACTC ATGCTTCC	180
TCTTAACGTGT AACATTGTAT CTGCTGACCA ACCTCTCTCC ATCCCTCCT CCCACCTACC	240
CTCCCCAGTC CCTCGAG	257

(2) INFORMATION FOR SEQ ID NO:1444:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 258 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1444:

GAATTCCGGCC TTCATGGCCT AGGAAGCATT AAATTGGGCC ATAGGAAGGA CAAGTCACAT	60
CCAGTTTAGT GATCAATGGT GGTTTGGGAA AGAAATAACA GAATTCTACT CCTACATGAT	120
AGGGAGAGAC TACAGAGGCC ACCTAGACCA ACAAACTCTG CCATCAGGTC CTTGAATCAT	180
TGCTACCATG TCCTGGTGCT GGTTGTAGCA TTGCTAGTGA TATGTAACTC ATTACCTACT	240
TATGCAAACC ATCTCGAG	258

(2) INFORMATION FOR SEQ ID NO:1445:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 638 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1445:

GGATGGCTAC	GGCAGGGGGT	GGCTCTGGGG	CTGACCCGGG	AAGTCGGGGT	CTCCTCGCC	60
TTCTGTCTT	CTGCGCTCTA	CTAGCAGGTT	TGTGCAGGGG	AAACTCAGTG	GAGAGGAAGA	120
TATATATCCC	CTTAAATAAA	ACAGCTCCCT	GTGTTGCCCT	GCTCAACGCC	ACTCATCAGA	180
TTGCGCTGCCA	GTCTTCATT	AGTGGAGACA	CAGGGGTTAT	CCACGTAGTA	GAGAAAGAGG	240
AGGACCTACA	GTGGTATTG	ACTGATGGCC	CCAACCCCCC	TTACATGTT	CTGCTGAGA	300
GCAAGCATT	TACCAGGGAT	TTAATGGAGA	AGCTGAAAGG	GAGAACCCAGC	CGAATTGCTG	360
GTCTTGAGT	GTCCTTGACC	AAGCCCAGTC	CTGCCTCAGG	CTTCTCTCCT	AGTGACAGT	420
GCCAAATGA	TGGTTTGGT	GTTTACTCCA	ATTCCNATGG	GCCAGAGTTT	GCTCACTGCA	480
GAGAAATACA	GTGGAATTG	CTGGGCAATG	GTTGGCTTA	TGAAGACTTT	AGTTTCCCCA	540
TCTTTCTCT	TGAAGATGAA	AATGAAACCA	AAAGTCATCAA	GCAGTGCTAT	CAAGATCACA	600
ACCTGAGTCA	GAATNGGTCA	GCACCAACCC	GACTCGAG			638

(2) INFORMATION FOR SEQ ID NO:1446:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1446:

GCGAGCTCGT	GTTTAAAGG	ACCAAATAGA	AGTTTACCAAG	GAGAGAAAGTG	ACAGAAAGTGC	60
TCTCTAGATA	GAGGAAGGGC	ACACACAGAT	GCAAGCATGT	GCAGAAATGA	GCAAACCACT	120
GAGACGCTGC	CTTGAGCTCT	GTGTCACACT	GCTATGTTGC	AGCCTGGGAG	GCTGTTCCA	180
GTTGAGCCT	TCGGAACCAAG	CCATGAGATG	GCACGGGTAC	GCGGAAGGGA	GCAGTCTCCA	240
TGGCTGGGTG	GTGATGGGGG	CTTCTCGAG				269

(2) INFORMATION FOR SEQ ID NO:1447:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1447:

GGTCTCTCGC	CGCCGGAGGA	AGATGAGGCT	GAAGATTGGA	TTCATCTTAC	GCAGTTGCT	60
GGTGGTGGGA	AGCTTCTCTGG	GGCTAGTGGT	CCTCTGGCT	TCCCTGACCC	CGCGGCCGGA	120
CGACCCAAGC	CCGCTGAGCA	GGATGAGGGG	AGACAGAGAT	GTCAATGACC	CCATGCCCAA	180
CCGAGGGCGC	AATGGACTAG	CTCCCTGGGG	GGACAGATTC	AAACCTGTGG	TACCATGGCC	240
TCATGTTGAA	GGAGTAGAAG	TGGACTTAGA	GTCTATTAGA	AGAATAAACA	AGGCCAAAAAA	300
TGAACAAGAG	CACCATGCTG	GAGGAGATTC	CCAGAAAGAT	ATCATACTTC	TCGAG	355

(2) INFORMATION FOR SEQ ID NO:1448:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(iii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1448:

GAATTCTGGCC	TTCATGGCCT	ATCCTCTGCC	AAGACCAAAA	GGAAAGAAGA	AAAAGGGCCA	60
AAAGCCAAAA	TGAAACTGAT	GGTACTTGT	TTCACCATTG	GGCTAACTTT	GCTGCTAGGA	120
GTTCAAGCCA	TGCCTGCAA	TGCCTCTCT	TGCTACAGAA	AGATACTAAA	AGATCACAAAC	180
TGTCACAACC	TTCCCGAAGG	AGTAGCTGAC	CTGACACAGA	TTGATGTCAA	TGTCCAGGAT	240
CATTTCTGGG	ATGGGAAGGG	ATGTGAGATG	ATCTGTTACT	GCAACTTCAG	CGAATTGCTC	300
TGCTGCCCA	AAGACGTTT	CTTGGACCA	AAGATCTCTT	TCGTGATTCC	TTGCAACAAAT	360
CTCGAG						366

(2) INFORMATION FOR SEQ ID NO:1449:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1449:

GATTTCTTAC	CCAAAGCTCT	GGAATTGTAC	ATTTATTTTT	TAACACTCAA	AGAGGGAAAG	60
AGCCTTGAT	CATATGTGAA	CATTGTATCA	TAGGTAATGT	TGTACAGACC	CTTTTATACA	120
GTGATCTGTC	TTGTTCTGTC	AGCAAAAATC	CTCTATGGAC	ATAGGAGGTG	CTGTGTCCCC	180
TGCCCTCTTG	CCCTGACAGT	GTCCCATGGG	CCCCCTTCTG	CTCCCTGCC	CCTCCCTGCT	240
ACTGCTGATG	CACTCCCCCCC	CCTCGAG				267

(2) INFORMATION FOR SEQ ID NO:1450:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 431 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1450:

GCGATTGAAT	TCTAGACCTG	CCTCGAGACC	TGGGGGAGA	TTGGGCTCCC	TTTCCCTCATG	60
ACATCCTGCC	CTATCAGGAC	TCTGGAGATA	GTGGGAGCGA	CTACCTTTTC	CCAGAACGCTA	120
GTGAAGAACATC	AGCAGGCATC	CCGGGAAAGT	CAGAACCTTC	CTACGAAGAG	CTGTGGCTGG	180
AGGAAGGCAA	GCCCAAGCCAT	CAGCCTCTCA	CTGCTCTCT	GAGCGAGAAG	AAACAGATGTG	240
ATCAGTTTAG	AGGTTCTGTC	CGATCCAAAT	GTGCGACTTC	TCCTCTTCCC	ATCCCTGGGA	300
CTCTGGGAGC	AGCAGTGAAG	TCTTCAGATA	CTGCCCTACC	TCCACCTCCA	GTGCCCTCCC	360
AATCTGAAGC	CCTCAGAGAA	GAATGCCGGC	TCCTGAACGC	CCCACCTGTT	CCACCCGAA	420
GCCCACACTCGA	G					431

(2) INFORMATION FOR SEQ ID NO:1451:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1451:

GCCTGCCCCC ACCTTACAGG TCTGGATGT ACCTTCCAT CTGTTGCTGC TTTCTCTAT	60
GGCCCCCTGC CCTCACTCTC AAGAACCTCA ACTACTCCGT GCGGAGGAG CAAGGGCCG	120
GCACGGTGT CGGAACATC GGAGGGATG CTGACTGCA GCCTGGGCTT CCGCTGCAG	180
AGCGCGGCCG CGGAGGGCGC AGCAAGTCGG GTAGCTACCG GGTGCTGGAG AACTCCGCAC	240
CGCACCTGCT GGACGTGGAC GCAGACAGCG GGCTCCTTA CACCAAGCAG CGCATCGACC	300
GCGAGTCCCT GTGCCGCCAC AATNCCAAGT GCCAGCTGTC CCTCGAG	347

(2) INFORMATION FOR SEQ ID NO:1452:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1452:

GGGGCAGAAG TTGAATATAAC CGGCAATTTC GCGAGCACCC AAGGAGAGAA AACCAAGTAA	60
AAAAGAAGGA GGCACACAAA AGACATCTAC TCTTCTGCA GTACTTTATA GTTGCTGGAT	120
TTGTAAGAAG AACCATTGATC AGCATCTTCT TTTATTGTGT GATACTGTA AACTACATTA	180
CCATCTTGA TGTCTGGATC CTCCCTCTAC AAGGATGCCA AGAAAGACCA AAAACAGTTA	240
TTGGCAGTGC TCGGAATGTG ACCAGGAGG GAGCACTGAC ATGGAAGCAG ATATGCCAT	300
GGAAACCTA CCAGATGGAA CCAAAACAAAC TCGAG	335

(2) INFORMATION FOR SEQ ID NO:1453:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 627 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:

GCGATTGAAT TCTAGACCTG CCTCGAGATC CCCATGACTC CTACATCCTC TTTTGTGTCT	60
CCGCCACAC CCACTGCCTC ACCTCATTCC AACCGGACCA CACCGCCTGA AGCGGCCAG	120
AATGGCCAGT CCCCCATGGC AGCCCTGATC TTAGTAGCAG ACAATGCAGG GGGCAGTCAT	180
GCCTCAAAAG ATGCAACCA GGTTCACTCC ACTACCAGGA GGAATAGCAA CAGTCGGCCC	240
TCTCCGTCT CTATGAACCA AAGAAGGCTG GGCCCCAGAG AGGTGGGGGG CCAGGGAGCA	300
GGCAACACAG GAGGACTGGA GCCAGTGCAC CCTCCGAGCC TCCCGGACTC CTCTCTGGCA	360
ACCAGTCCCC CGCTGTGCTG CACCCCTCTGC CACGAGCGGC TGAGGACAC CCATTGGTG	420
CAGTCCCCGT CGCTCCCTTC GCACAAGTTC TGCTTCCCTT GCTCCAGACA AAGCATCAA	480
CAGCAGGGAG CTAGTGGAGA GGTCTATTGT CCCAGTGGGG AAAATGCC TCTTGTGGC	540
TCCAATGTCC CCTGGGCCTT TATGCAAGGG GAAATTGCAA CCATCCTGTC TGGAGATGTG	600
AAAGTGGAAA AAGGAGAGCC ACTCGAG	627

(2) INFORMATION FOR SEQ ID NO:1454:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 394 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1454:

GAACTTTGAC ACCTACACTT AAATTCTGAG TCATTAACAA GGCCTACATT TATCAACTGT	60
GGAAATATCA GCCAGTTTT GCAAACCTCT TCTTAGGACA CTAAGTTGTT TGCAGAAATC	120
ACTAGCATG ACTGACTCG CAACAATGTG GTTATATCT TTGATTAAC TAGTCCTTT	180
TCTTGGTCAA GAGTCAGTAG ACAGGACTGA AGCTTATGCC CCTTGCCCC CCACCACAC	240
TCCATTACTA CCACCTTGGT TTAGCCATCC TTCTTGATC TGTTCTCCC ACTTCTACTG	300
TGCTACTCTA CAGACTTGCC CTGAATGTAA GAGCAACAAT TACCTTGTAAGTCCAAGTT	360
GGGGCAGGTC ACTCCAAAC TCCACAACT CGAG	394

(2) INFORMATION FOR SEQ ID NO:1455:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 381 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1455:

CAGATGTTCA GATATATCTT GAATTTCTA CGAACATCCA AACTCCTCAT TCCTGATGAT	60
TTCAAGGACT ACATTTGTT ATATGAAGAG GAAAATATT TTCAGCTTCA GCCCATGTTG	120
TTGGAGATGG AAAGATGGAA GCAGGACAGA GAAACTGGTC GATTTTCAAG GCCCTGTGAG	180
TGCTCTGTCG TCGCTGTGGC CCCAGACCTC CGAGAAAGGA TCACGCTAAG CGGTGACAAA	240
TCCCTTGATAG AAGAAGTATT TCCAGAGATC GGCGACGTGA TGTGTAACTC TGTCAATGCA	300
GGCTGGAATC ACGACTCGAC GCACGTCATC AGGTTCCAC TAAATGGCTA CTGTCACCTC	360
AACTCAGTCC AGGTCTCGA G	381

(2) INFORMATION FOR SEQ ID NO:1456:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1456:

GGTGACGCCCT GCTTCACATC TCTAATGAAC ACCCTCATGA CGTCGCTACC AGCACTAGTG	60
CAGCAACAGG GAAGGCTGCT TCTGGCTGCT AATGTGGCCA CCCTGGGCT CCTCATGGCC	120
CGGCTCTTA GCACCTCTCC AGCTCTTCAG GGAACACCAAG CATCCGAGG GTTCTCGCA	180
GCTGCCATCC TCTTCCTATC ACAGTCCCAC GTGGCGGGG CCACCCGGG CTCAGACCAAG	240
GCAGTGCTAG CCCTGTCCCC TGAGTATGAG GGCATCTGGG CCGACCTGCA GGAGCTCTGG	300
TTCCTCGAG	309

(2) INFORMATION FOR SEQ ID NO:1457:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 374 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1457:

GCACATTAA ACAGATACAA CACAGAATAG TATGTATAGA GCATGGTATG TAGCAGGGC	60
CTATTCCTGT CTGAGTGGAC AAGGAGGCTT CCTAGAGGAA GAAACATTTA AAGCTGAGGG	120
CTGAAGGATG AATAGGATT T AACCAAGTAA AAGTAAGAAA GGAAGTGGGG AGCTGGAAAG	180
GGCATTCCAG GAAGAGAAAA CTGATGTGC AAAGGCCAGG AGGTCAGAGC GCACAGTGG	240
TATGACGATG TGGCTAGCTG AGCATGTCTG TGCACTGTCA ACTTTGTGT GAACACAGAG	300
GGAGGCTACT GGGAAATTTT AAGCAAGAGA GTTGGAGTAT GATCACATT GCATGTTAGA	360
AAGACACACT CGAG	374

(2) INFORMATION FOR SEQ ID NO:1458:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1458:

GAATTCGGCC TTCACTGGCCT ACATATTAT TATGTCAACC TGTACTCCC TTTCCCTCTT	60
CCTCTCCCTC TTTTCTCTCC CTCTCCCTCT CTCTCTCTTC CTTCCCTCCCC TTCCAGGTAC	120
CCTAGATGAA CCATGGGAGG TCCTGGCTAC ACAGCCATTTC TGTCTGAGAG AGTCTGAGGA	180
CTCTGAGACC CAGCCCTTG ACACGCACCT TGAGGCTAT GGACCTTGCC TGTCTCCACC	240
TAGGGCAATA CCAGGGAGACC AACATCCAGA GAGCCCAGTT CACACAGAGC CAATGGGAT	300
TCCGGGCAGG CTCGAG	316

(2) INFORMATION FOR SEQ ID NO:1459:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 417 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1459:

GGAACCACCA ATTCCGGACA CACTGGGATT ACAGTTCCAG GAAGGATGTT ACCTTGACG	60
ATGACAGTGT TAATCCTGCT GCTGCTCCC ACGGGTCAGG CTGCCCCAAA GGATGGAGTC	120
ACAAGGCAG ACTCTGAAGT GCAGCATCG CTCCCTGCCA ACCCCCTCCA GCCAGGCCAG	180
GAGCAGCTCG GACTTCTGCA GAGCTACCTA AAGGGACTAG GAAGGACAGA AGTGCACATG	240
GAGCATCTGA GCCGGGAGCA GGTCTCTCTC TACCTTTTG CCCTCCATGA CTATGACCA	300
AGTGGACAGC TGGATGGCCT GGAGCTGCTG TCCATGTTGA CAGCTGCTCT GGCCCCCTGGA	360
GCTGCCAACT CTCCCTACAC CAACCCGGTG ATCTTGATAG TGGACAAAGT GCTCGAG	417

(2) INFORMATION FOR SEQ ID NO:1460:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 222 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1460:

GAATTCTGCC	TTCATGGCCT	ACTGAGAAAA	AAAATCAAAT	CTAATTTAA	AATGAAGGTA	60
TTTAAACCA	TGGCACAAAGG	GAGCCTTATT	TATGGAGCTG	GTGGGAAGCC	AGGATGTTTC	120
CAATCCGCTG	CTCTTACAGG	AGCTGTGCC	TCGCCAGTTC	TGTGCTGCAG	TGGGCAGCCA	180
ACTGAAGTGC	ATGAGTCAAA	TGCACGAAGC	AGCAGACTCG	AG		222

(2) INFORMATION FOR SEQ ID NO:1461:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 256 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1461:

GCTGCCTCCA	TACTGTTTA	GGCAGCACCG	TTTATGTGAC	AGAGTCCGTG	TTTCTCAAAT	60
GCATGGTGTT	CCTCAGGTGG	AGAGTGGGCA	GAAGTTTTTG	CAACACTTTT	TTTTAAGTT	120
ATTGGGTGCA	AAATCCAAA	CCAGGATATG	TGTATGTCTG	TGTGTTTATG	TTTTTTATTT	180
GACCCTCCCC	TCTTCAACC	TACCCCTTT	TATATCTAAT	GTAGAAAAAG	CGAAATTGAA	240
TCTGGAAAAA	CTCGAG					256

(2) INFORMATION FOR SEQ ID NO:1462:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 250 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1462:

GGGGGTGGAA	GGCGTAGTGC	TTGAAATGCA	GGGATCTGGC	AGTCAGCAGA	AGGATCTGAG	60
ACCCAGTGTGTC	GAGGTAAAAA	AAAAAACAAA	AAACCAAAAA	CCAATGCAGG	AATCCAGTGG	120
GTGGAGTGGAG	GGGATCTGGG	ATCCAGTGTAT	GGGGGCCCA	GGATCCAGGC	ATTGTGGTTG	180
TCAGGATCCA	GTGGTGAGGT	TTGTTGACAT	CCAGAATCCA	GCAGCTGAGC	TTGGAGATCC	240
AGGGCTCGAG						250

(2) INFORMATION FOR SEQ ID NO:1463:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 279 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1463:

GAATTCTGGCC	TTCATGGCCT	AAGTTTATAA	AAATTCAGC	CAGAAAAACC	CAGGTAAGGA	60
TTTTTTTTAT	TTTTTTTTTA	TTTTTATTTT	TAGACCAGGT	GAGAATCCTT	TGTTCCACTG	120
AGATTTAAA	ATTTAGTACA	TTCAAAATTG	ATATTTCTAC	CATTTCTCA	GCCTGCTTGT	180
CTTCTTATCT	TTGCAGCACT	GCTTATTGCC	ATCACTGCTT	ATCTGTTCAC	TCAACTTGAA	240
ACCTCAGAAT	TGTCCTTGAC	CTCATCCCCA	CATCTCGAG			279

(2) INFORMATION FOR SEQ ID NO:1464:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1464:

GAATTCTGGCC	TTCATGGCCT	AGGCCATTG	GTTCTAAACT	GCTTGACTAG	TTTTAAGCTC	60
ACATAATTC	TTAACGTTTC	ATATTTCTT	AAATGCAAGG	AAATGAATAT	AAAAGCACTA	120
AATCTCCTGG	TTCACTGGTA	CAAAAATTAC	AATGGTCAGT	TCCCTTAGGT	CATCAAAAAC	180
TAGTCACAAA	AATAGTTCTT	GTATTCAACC	TGAATGTGCC	ACAGGAAAAA	AAAAATATT	240
TCAGGATTT	CCAGCTCAGC	CTCGAG				266

(2) INFORMATION FOR SEQ ID NO:1465:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1465:

GAATTCTGGCC	TTCATGGCCT	AAACATTTC	TGAAAACGT	GATAGAAAGA	AGGAGGAGCT	60
GTTTCTAGGA	GGGAATAAA	TAATTTGGCA	GGAGACTTTT	TGAACTAGAT	ATCTATTGAA	120
TAACAAAAGTG	ACAATGTTCC	CCATCCTCTC	ATTTCCATT	CCAATTTCAC	TTCTCGTCCC	180
AATTCAAATC	ATTCTTACTT	ATGATCGGCG	CTATGTCAGT	GCCTCTCAGC	TGGTCTTCCC	240
AGACCCAGTC	ACCCCTCGAG					259

(2) INFORMATION FOR SEQ ID NO:1466:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1466:

GCGCCTATCA	CAAGCAGATC	ATGGGTGGCT	TCAAGGAGAC	GAAGGAGGCT	GAAGATGGCT	60
TCCGCAAGGC	CCAGAAGCCT	TGGCCAAGA	AGATGAGGA	GCTGGAGGCA	GCCAAGAAGG	120
CCTACCATT	GGCTTGC	AAA GAGGAAAGC	TGGCCATGAC	ACGGGAGATG	AACAGCAAGA	180
CGGAGCAATC	GGTCACACCT	GAGCAGCAAA	AGAAGCTGCA	GGACAAAGTG	GACAAGTGCA	240

AGCAGGATGT GCAGAAGACA CAGGAGAAGT ATGAGAAAGT GCTGGAAGAT GTGGGCAAGA	300
CCACACCCCA GTACATGGAG AACAAACTCG AG	332

(2) INFORMATION FOR SEQ ID NO:1467:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1467:

GCTCGACATG TGCTGCTTC CATGCAAAGT GGAATTGAC AATCACTGTG CCGTGCCTTG	60
GGACATCTG AAAGCCAGCA TGAAACACATC CTCTAACCTC GGGACACCGC TTCCGCTCCC	120
CCTCCGAATT CAGAAATGCC TCCACCGACA GCAGTACTCC TATAATTGATG CCCCTCTGTTA	180
CGAGAAACAG CTCCATTTGGT TTGCAAAGTT TTTCCCTAT CTGGTGCCTCT IGCACACGCT	240
CATCTTGCAGCA GCCTGCAGCA ACTTTTGGCT TCACATCCCC AGTACCAGTT CCAGGCTCGA	300
G	301

(2) INFORMATION FOR SEQ ID NO:1468:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 436 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1468:

GAATTGGGCC TTCATGGCCT AGTGGAAAAT GGGAGGCATG AAATACATCT TTTCGTTGTT	60
GTTCTTCTT TTGCTAGAAG GAGGCAAAAC AGAGCAAGTA AAACATTCAAG AGACATATTG	120
CATGTTCAA GACAAGAAGT ACAGAGTGGG TGAGAGATGG CATCCTTACG TGGAACCTTA	180
TGGGTTGGTT TACTCGCTGA ACTGCATCTG CTCAGAGAAT GGGAAATGTGC TTTGCAAGCCG	240
AGTCAGATGT CCAAATGTTC ATTGCCTTTC TCCTGTGCAT ATTCCATC TGTGCTGCC	300
TCGGTGCCTCA GAAGACTCCT TACCCCAAGT GAACAATAAG GTGACCAGCA AGTCTTGCAGA	360
GTACAATGGG ACAACTTAC AACATGGAGA GCTGTTCTGA GCTGAAGGGC TCTTTCAAGAA	420
TCGGCAACCCA CTCGAG	436

(2) INFORMATION FOR SEQ ID NO:1469:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1469:

GAATTGGGCC TTCATGGCCT AGTCTGGCAG ACAGAGCGAG ACCTTGTCTC AAAAAAAA	60
AAAAAAAAAC AAAGTAAAAA AAGATATGTG TTTGATTAAT AACAGTCCTG ATTTAAAACA	120
ACAGCACTGT CTTTTGAGCC TTCACTCAGT ATGCAACTCC TTTATACAGA TTTTATTTTA	180
ATTTTTATAA CACACTGCTT GAGAAGCATA TTTATTTCCG TTTTTGTGTG TGCATGTGGT	240

GGACAGGAAA CAGTGGTTCA GAGAGATGAA GCACCCCTGCC CACCACATGC ACTCGAG 297

(2) INFORMATION FOR SEQ ID NC:1470:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1470:

GAATTCTGGCC	TTCATGGCCT	AGGACCTATT	CTATCAGCAG	CATTGACAC	CACTGATTAC	60
TCATTCTGCT	CTGGTGTACT	TTCTTCAATT	GCTTCCAAGA	CACCATAAAT	TCTTCTGCCT	120
TGCTGGCTGC	CTTTGCTGGT	TCCTCCTCTT	CTCCCTGACC	TCTTAATGTT	GGAGAACAC	180
AGGGCTTAGT	CCTTGGCTCT	CTTCTCTCTT	TTCTTTACAC	TGTGGTCCTC	AGTGAGGGAG	240
ATAGGTAGAT	CCACTGTCCC	GATCTTAACC	CAAAGAAAAGA	CTTGCTGTCC	AGCTACGGGG	300
GCTGTGGTCA	GAAGGCAGCC	TCGAG				325

(2) INFORMATION FOR SEQ ID NO:1471:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 421 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1471:

GAATTCTGGCC	TTCATGGCCT	ACAAAAGGAT	GGAAATGCC	TGCATCCCC	TGAAAAGAAT	60
TGCTTATTTC	CTATGCTCT	TATCTGCGCT	TTGCTGACT	GAGGGGAAGA	AACCAGCGAA	120
GCCAAAATGC	CCTGCCGTGT	GTACTTGTAC	CAAAGATAAT	GCTTTATGTG	AGAATGCCAG	180
ATCCATTCCA	CGCACCGTTC	CTCCTGATGT	TATCTCATTA	TCCTTGTGA	GATCTGGTT	240
TACTGAAATC	TCAGAAGGGA	GTTTTTATT	CACGCCATCG	CTGCAGCTCT	TGTTATTTCAC	300
ATCGAACTCC	TTTGATGTGA	TCAGTGATGA	TGCTTTATT	GGTCTTCCAC	ATCTAGAGTA	360
TTTATTCTATA	AAAAACAACA	ACATCAAGTC	AATTCAAGA	CATACTTCC	GGTACTCGA	420
G						421

(2) INFORMATION FOR SEQ ID NO:1472:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1472:

GAATTCTGGCC	TTCATGGCCT	AGTACTCCAT	CTCATCCATC	TCATGGTAGT	TCAGAAATGC	60
CTATATTCT	TCTTAAATTC	ACCAAGGATT	TTGTTTTTC	TTTCACCCCC	TTTTGCCCT	120
TCTTATTTC	ATCCCTCCAT	TTCACTCATT	TCCACTCATG	TTTAGCAGTT	TCTATCCTTT	180
TCTTCCCTGG	CGTTTTAGCG	TCACACATAG	AAACCTATCA	CCATCAGCCC	TCG	233

(2) INFORMATION FOR SEQ ID NO:1473:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1473:

GGGATTGAAT	TCTAGTTGCC	TACCTACCAA	ACTACCTACT	GAACTTTTTA	ATTGAAAGAT	60
ATTCTTCCTG	GACTACTTGT	TTATAGTTTA	TTAACATGAAC	TGCTCTATTT	CTAAAAACTT	120
TATTTTTAAA	GTCCTTCCC	GTTTAGAATG	CGGCATACTC	TTGCTTGCGG	GGTATATATC	180
TCTGATCGTG	ATAACTACCT	ACCGAAAACC	TTTCATGGCT	CCTTGCCAAAC	TACAAAATTG	240
CGATATCCTC	GAG					253

(2) INFORMATION FOR SEQ ID NO:1474:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1474:

GAATTCGGNC	TTCATGGCCT	ACCGCAAGTT	CCTCTGACC	TTCAGGGAGC	CTGACTTACA	60
GAAGAAGTAC	TCCAAGCAGG	TAGACGACCG	ATTGGTGCC	TATGTGGCGT	GTGCCTCGCT	120
CGTCTTCCTC	TTCATCTGCT	TTGTCAGAT	CACCATCGTG	CCCCACTCCA	TATTCATGCT	180
CAGCTTCTAC	CTGACCTGTT	CCCTGCTGCT	GACCTTGGTG	GTGTTTGCTG	CTGTGATCTA	240
CTCCCTGCGTA	AAGCTTCTCC	CCTCCCCACT	CGACACCCTC	TCCAGGAAGA	TCCGTGCGTC	300
CAAGATGAAC	AGCACCCCTGG	TTGGGGTGTT	CACCATCACC	CTGGTGTTC	TGGCGGCTTT	360
TGTCAACATG	TTCACGTGCA	ACTCCAGGGA	CCTGCTGGGC	TGCTTGGCAC	AGGAGCGTCT	420
CGAG						424

(2) INFORMATION FOR SEQ ID NO:1475:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1475:

GAATTCGGCC	TTCATGGCCT	ACTCTGTGTT	GGTAAGTAAA	AGCCCTCCAG	CATAGGTATA	60
CACTTAGTTG	TTCTTCCAG	TGGTTATCAT	ACTTCTTTTC	TTGCCATAGT	TACATGCTAA	120
CAACGTCCA	AAGCTATAGT	TGCTCTTGCA	TTTTGTTCTT	AATTCTTGTA	AGATAAAACTA	180
ATAATACAGG	GAGTAAATGT	GCACGTGTTA	TTAATTTAAA	TCCCCGGGAC	ACGGGATAAA	240
CTGAAGGAAA	TCGTGCTTT	TGAAAAGTAG	GTGTAGCTTG	CCATGCTGCA	TTGTCTTATA	300
CCCACAAAC	TCGAG					315

(2) INFORMATION FOR SEQ ID NO:1476:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 321 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1476:

GAATTCCGGCC TTCATGGCCT AGCCATCATG TTTATTAGAA GGTTGGATTT TGGTGTGTGC	60
TCTAGACAGA TACAGAATAA ATACCTGCGC CTGAGAACAA GGAAGTCCAC GATTCAACA	120
AAGTGTCAAC TACAGGAAGT TGCTGTGTCA AAATCCAGGC AAGGACCCAA CTCCGGCAG	180
CCCCCTCTCC CTGCTGACCT CAACAAGGGC TGTCGCTATTG TTTTTTATTG TATTATTTA	240
TTTCTCTTTA TTATTATTA TATTATTATT ATTTGCTTT GCTGTGGTCA CTATCATTGG	300
CAAAGTTCCCT TTTCCTCGA G	321

(2) INFORMATION FOR SEQ ID NO:1477:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 215 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1477:

GAATTCCGGCC TTCATGGCCT AAGCAAAGCT AAGTGTAAAAA CTAAAAAGCA GTTTGTTGCA	60
ACTGGTCATA AAACTGATTA AATCTAAAGC TGGCATTAAT AAGGAAGCAA GGTAATAAAA	120
CAAAATATA AACAGCTTTG AGAAAGTACA CCTAATAACA AAATCTTGTAA ACACAACAAA	180
TGAAAATCAC AAAAAATATA AGGAGACTCC TCGAG	215

(2) INFORMATION FOR SEQ ID NO:1478:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 291 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1478:

GAATTCCGGCC TTCATGGCCT AATCGGTCTC CTTGGAGAG ATCACTAGAA CAGAAAAACA	60
ACCCAGATTA TAACTGGAAT GTTCGGAAAA CATAAAGGAC AGCTCGTAA GGAGAGAGTA	120
AGAGTCACCA AACACGTGGA TATTTTGTT CTGATCCTAC AGTAGCCGGT TATCTAGACC	180
AGTAAGTGGA GTTTGGACA TGCTGCTGCT GTCAACTCAC TGGCTGAAGG AGCACTTCAA	240
GGAATGGGAG GCCTTCACT GGGTCCAGCT CTGATTCCGA TCACTCTCGA G	291

(2) INFORMATION FOR SEQ ID NO:1479:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 514 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1479:

GAATTCCGCC	TTCATGGCCT	AGAGAAAAGAA	ATGGCTCGAA	CAGAAAACAG	TGGTCTTGAA	60
AGGCAACCA	ACAGTAGTT	ACAAATAGCA	TTAGCTTTT	CTTTAAAGAA	ATTCAATTGTA	120
ACCAGTGAAG	GATAAGATT	AAATTAGAA	AAATGGAAT	CCTATGAATA	AAAAACTAGT	180
AAGCTTGAGA	GCAGAACATCAC	TGTGGAAAAA	AAACAGATTG	AAAATAAAT	TGCAGGTATC	240
ATAGACAGGA	AATTGCCACT	AGAGAAAAAC	GGAAACTTGT	GATAGATAAA	AATGAAGTAT	300
TTTCATTGG	AACAAGAGAC	CAACTGAAGA	GAGATCAAGT	GAAGGGGTT	TATTTAATG	360
AAACACAAAG	ATTCTTGCG	AAATCAAAGT	GCCGGAGCCA	AAAACAGGCC	TCAACCTTCA	420
AGATTAGAGC	TGTATTCAAG	TTGTTCAAGT	TGGCTCTCGG	TCCCAAACCA	ACAGCAATGT	480
CACTAAGTT	ACAAGTAAAAA	GGTAAGCCCT	CGAG			514

(2) INFORMATION FOR SEQ ID NO:1480:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1480:

GAATTCTAGA	CCTGCCCTCT	CACTGCTCCC	CATAACCTGG	CACGATGGGT	TCCTGGTCAC	60
TGATCACCAT	CATTTTGGGA	AGAGAAATCCC	AATCCCTGGC	ACCTGGGTTT	GCCTCATCCA	120
ACCATCCTTC	CCTTTCTCAG	CTGCACCCCC	TCTGCAGATC	TGAAGACACA	CCTCACTCTT	180
CCAGGGCCCT	CGAG					194

(2) INFORMATION FOR SEQ ID NO:1481:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1481:

GACGCGCCCG	GCCTCCTCTT	TCATTTCACT	ATACGTAATA	AGAAGTCAGA	AATTACCTTT	60
AACCAAGCT	GGAAATCTCC	TTATCTAGAT	CATTATATTC	TTTAGGTACA	TTTTTTACTT	120
TCTACATTAC	CACTCACAAAC	AATATTGCTA	ATTTTTTCTC	TCTAAATAAG	AAGGATTCCC	180
TTTTTTCAAT	AACACTTTCT	TTATTTTTCT	TTAACCTTTTC	ACTGAAAGCC	CCCTCAAAAG	240
CTACCTGGCT	TATGCTAACAC	GTATGTTGA	TGTCTCTTC	ATACTACTCT	GTTTCCATCT	300
GTCTAGCATC	CACCTGGCTC	CCAAATCTAA	AGTCTCCATC	ATATTTGTC	AGTTTTTAGT	360
TTTTTTGTTA	TGGTGCAACC	TCGAG				385

(2) INFORMATION FOR SEQ ID NO:1482:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 376 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1482:

GAATTGGCC	TTCATGGCCT	AGGTTCTGGG	ATAGCTGATT	GTTGGCCACC	CCCGCCCTGG	60
AATGGAAACC	CTGTTAGGCC	AGGGCCAGAG	CAGGTGGCCA	TGAAGCAAGA	CGGCAAAGGC	120
ATTGGAGGAT	GTCCCACCTC	CACACATAAC	CCCAGGCATT	TCTTGGCTGG	GGAATGGTGT	180
TACAGGATCC	ACAAGCACAG	AGATGGGAAA	ACAGTGTCTC	TGGGGAACAC	CAAGACTTGG	240
GGTTGCTCTG	AGGACAGATA	GACTCAGGGG	GGACATCCAG	AGGTAACACT	AGGTCCGAG	300
GTGGGTTCA	AGGCCCCAGC	TCTATCCCCT	TATTCCCAGC	CGGATTAAAG	AATAATCTGA	360
GTATGGTCTC	CTCGAG					376

(2) INFORMATION FOR SEQ ID NO:1483:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1483:

GAATTGGCC	TTCATGGCCT	ATGGATCCAT	CATGGGACAA	TTACTAGTTA	TTTACTTTCC	60
TCCGCTTCAG	AAGGTTTTTC	AGACTGAGAG	CCTAACGATA	CTGGATCTGT	TGTTTCTTT	120
GGGTCTCAC	TCATCAGTGT	GCATAGTGGC	AGGCCTGGTC	AGTAATCTTC	TCTACTGTAA	180
TAGTACAGCA	GCTTTTAGGT	CCACTGATTG	CATTCTTAAT	TTGACTATTT	AATATTATT	240
TTATTAACCT	AAGGTTTTCA	TTTGTCACTA	TAGCATGGTC	TCATAATT	CAAAAATCA	300
GAAAACAGTA	GATGTTGGCG	TGGATGCAGT	GAACAGGGTT	ACTCCAG		347

(2) INFORMATION FOR SEQ ID NO:1484:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 709 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1484:

GAATTGGCC	TTCATGGCCT	ACGAGAAATAT	TGTGGAGAAC	TGGTCAGTAG	AAGAACAAAGC	60
AATGGAAATG	GATTGAGTG	TCCCTCAACA	GGTAGAAAGAT	CTAGAAAGGA	GAGTGCATC	120
AGCAAGTTTG	CAAGTGAAGG	GTTGGATGTG	TCCAGAGCCT	GCATCAGAAA	GGGAGGACTT	180
GGTATATTTT	GAACATAAAAT	CATTTACTAA	ATTGTGCAAG	GAGCATGATG	GAGAATTTCAC	240
TGGCGAAGAC	GAAGCAGTG	CACATGCACT	AGAACGGAAG	AGTGCACAAAC	CCCTAGATAT	300
AGCTGTAACC	AGCCTGGCTG	ATTGGAGCG	GAACATTGAA	AGAAGGTATC	TGAAGAGCCC	360
CTTAAGTACC	ACCATTCAGA	TCAAACGTGA	TAATGTGGGC	ACAGTTACTG	TCCCTGCTCC	420
TGCACCATCC	GTTAGTGGTG	ATGGTGCAGG	AATTGAAGAG	GATATTGCTC	CAGGGCTCAG	480
GGTATGGAGA	AGGGCATTAT	CAGAAGCTCG	CAGTGCTGCA	CAGGTAGCTC	TGTGCATTCA	540
GCAATTACAG	AAATCAATAG	CATGGAAAAA	ATCAATTATG	AAAGTTTACT	GCCAAATCTG	600
TCGAAAGGGA	GATAATGAAG	AACTGCTTCT	TCTTTGTGAT	GGCTGTGACA	AAGGCTGTCA	660
TACCTACTGC	CATAGACCCA	AGATTACAAC	AATCCCAGAT	GCTCTCGAG		709

(2) INFORMATION FOR SEQ ID NO:1485:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1485:

GAATTCCGCC TTCATGGCCT ACTGTTTCAG AACTTCCGTA CCTTTTCTT GTATGTAGCA	60
CGTATAATG CAGCTGTAT GCAGTTCTT TCTTTGCTA GAAAATTAGT CAGGAGGTAA	120
GATGAATCTT CCAAAGTTAT GTTAAATTAA GTTTAACTTG ACAAAATTAAA CTTTGTCTT	180
ATTAAACAAA TACGTAAACA AATACTGGAA AAGCAAAGCT TATATTGGG AGTAAAATGT	240
ATCTTAAAT GCATGTTCAA CTTTGCTCG AG	272

(2) INFORMATION FOR SEQ ID NO:1486:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1486:

GAATTCCGCC TTCATGGCCT ACCGAGGACG AGGGGAAGAT GTCACCGAAG ATAGAAGGCT	60
TTTTGTTATT ACTTCTTTT GGCTATGAAG CCACATTGGG ATTATCGTCT ACCGAGGATG	120
AAGGCAGGGA CCCCTGGTAC CAAAAAGCAT GCAAGTGCAG TTGCCAAGGA GGACCCAATG	180
CTCTGTGGTC TGCAGGTGCC ACCTCTTGG ACTGTATACC AGAATGCCCA TATCACAAAGC	240
CTCTGGGTTT CGAGTCAGGG GAGGTCACAC CGGACCAGAT CACCTGCTCT AACCCGGAGC	300
AGTATGTGGG CTGGTATTCT TCGTGGACTG CAAACAAGGC CCATCTCGAG	350

(2) INFORMATION FOR SEQ ID NO:1487:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1487:

GAATTCCGCC TTCATGGCCT AGTACCTGAA GCCCTTCAAG GTGGCCTACA GCCTTAATGG	60
ACACGAATTC GATTTCATCC ATGATGTTAA TAAAAAACAC AAGGAGTTTG TGGTAACTG	120
GAACAAAAAC GCGGTGCATG TCAACCTGTT TGAGACCCCT GTGGAGGCTC AGTACGTGAG	180
ATTGTACCCC ACAGAGCTGCC ACAAGGCCCTG CACTCTGCAC TTTGAGCTAC TGGGCTGTGA	240
GCTGAACGGA TCGGCCAATC CCCTGGCGT CTCGAG	276

(2) INFORMATION FOR SEQ ID NO:1488:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 595 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1488:

GAATTCGGCC	TTCATGGCCT	AGTGGAGATT	ACTTGGCACC	ACTCTCCTT	CACAGAGCAG	60
AGTCTGAATA	GTCTTCAGAG	ATAGGCCTGT	GGGCCAGATT	GCCATCCCCT	ATGGACCAGA	120
AGCCAAGGAT	CTCTCTAGTG	ATGGTCAGAG	GGCCCAAATG	GCAGGGATAC	CCAGTGATGT	180
CAGGAGGAAT	AGTACAGACA	GAAGGTGCTA	AGCAGACAAAT	TCAACTGCCA	TGTTTTGCCA	240
CCCCCTGTGA	GCAGGGATTAA	GGTGTTCAGG	CCAGTATCTT	GGGCATGGGG	GAGCCTTTGG	300
CCAGAAGAGG	TATAAACCTC	AGAAAGTTTT	CAGTCTGATA	ACTATTGATA	TAATTCCAT	360
AGTGTGAGGG	AGCGGTATGC	TCTACCCCTG	TGTATTTAAG	GCAGGACAGA	GAAATTGAGG	420
ATGCCCTG	GGCTAGATCG	ATGATATGAC	CAGAAATCAA	AAAGGGAATG	CATTATTTAT	480
TGCTGTAA	CACTGTTAAG	AGAGGAGGTA	GTAAAGGGAT	GGATAGGCAC	ATAGAGAGGG	540
AAGGTCTCAG	GAGAAGGGAT	AGAAAGGAAC	TATGTTCACCA	AGAACAAACAC	TCGAG	595

(2) INFORMATION FOR SEQ ID NO:1489:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1489:

GAATTCGGCC	TTCATGGCCT	ACAATTAAAT	AGTATAACAA	ATCCCCTAGA	ATAGTAGAGG	60
AGAGAGGAAT	CTTCCCTGA	TATGTTTTG	TAATACTTCT	TCCTCCTCTT	CAGTCATAAG	120
GGAAATGTTT	GTTGAAAGAC	TACTTTGCAG	ACATTTAGAA	AGATACAGAG	TAAGTGTAAAG	180
ATGTCCCTCC	TTGTCCCTGA	GGAGTCTCTA	GTCAGGCACA	GGTAGGACTA	AATGAAAAAC	240
AACTACAGAA	CTAAGTAGAA	GAGTGTACAA	TAATATGGGG	AATGTGGAAC	ACTCGAG	297

(2) INFORMATION FOR SEQ ID NO:1490:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1490:

GAATTCGGCC	TTCATGGCCT	ACTTACTTTT	CCAAAAGATT	TTTCCACCT	GGAATAAGAA	60
GAGAGGACTA	GTTGAAACAT	TTGAGCTGGA	GAGGCTTATG	GGCAATATGA	AGTGGGCCAA	120
ATTCTTGCAA	TACACCCAT	TCAATTGAAA	GTACAGTGTC	TAAGGATAAG	AATACTTCCTT	180
TAAAGACCAA	CAATTGTTTT	AATGCAATCT	TAATTAGTAA	ATGGTTTACA	TTTTTCTAT	240
TGTTATTGGT	TTTAAATTT	GCTACCGCTC	GAG			273

(2) INFORMATION FOR SEQ ID NO:1491:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 660 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(iii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1491:

GAATTCCGGCC	TTCATGGCCT	ATTGAATTCT	AGACCTGCCT	CAGGGTAAGG	GAGATTTAAT	60
CTTTTCTTT	ACTATTTCT	AGTTTCTATG	AGCATGGATT	ACTTGTGCAA	ATCAAAACAA	120
AACAAACGGA	TGGCTCATCC	GGCAAACATC	CATGCCAGG	GTTGGTGTGCG	GGTGTGGAC	180
GCAGAGATGA	ATGGAGGGCT	CTGGCCTCG	CGGCTCACAG	TCTGGTGAGC	ATAGACAGTG	240
CTTCGATGT	GAGAGCAGAC	CTGAGTGTGCG	CTGGGACTC	CAGGCACAGT	TCTCCCTGCA	300
GCTCACAGCA	CTTACCCCTTA	CTGCACCATT	AACTTCTACT	CTAGCTCACT	GCCTCTAAC	360
TCTGAGGCC	TTGAAGGCAC	AAAATGAGTC	CCATCTGGGT	CTTAGCAGC	TGGCAGAAAA	420
CCTAGCTCAA	ACTCATGCTC	AAAAAACCCC	TGCTGAGGGAA	GTGGGCGAAT	GCAGGCAGCC	480
CTGGCAGTGG	GATCAAGTTC	AGGGAGTGGC	ACTGGAGGCA	TCACCCCAAG	GCTGAGAAGA	540
CCTTGAACGTG	CTGTTCAAGGG	TTTGCTGTC	TCTCCCAAGG	CATGACTCGG	CCCAGGAGGA	600
GATGGGGCAG	ATGCTGCAGA	AGGAGGGTTC	ATGCCCTCC	ACTGCTGCC	ATGACTCGAG	660

(2) INFORMATION FOR SEQ ID NO:1492:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1492:

GCTGTGCTAT	CTGTTGTCCA	GCATCTGACA	CAGTTGGTTT	TATATTTTGT	CTGGTTTCTA	60
GTTATTAAGC	AGGTTAAGTC	TGGTTCTGC	TGTTCTATAT	AGCAGGAAGC	AAAGGTTCTC	120
TCATGAATTT	TTAGCATAAT	AACATAAGCG	TGGATTCCAA	AAATTCAATT	CACAGATCCT	180
GGAAATCTGT	TTACTATGTT	TTATACATT	TGTGAAAGCT	GGAGAATATA	TATTTGTTTT	240
ACTATGTGTA	TCGCAAATAA	AATATCAATT	TCATGTGCCA	GAGAATTGAA	TACATTATCA	300
AAGGGTCAAC	TCGAG					315

(2) INFORMATION FOR SEQ ID NO:1493:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1493:

GGGACAACAA	GCCCCATCTGG	ATGCACGCAG	AGGAGCGGGA	GGAAAGCAAG	GATAAGCGCC	60
GGGACAGCGC	CCCTTATGGG	GAATACGGCA	GCTGGTACAA	GGCCTGTAAA	GTAGACAGCC	120
CCACAGTCAA	CACCACTCTG	CGCAGCTTGG	GGGCCCTATA	CCGGCGCCAG	GGCAAGCTGG	180
AAGCCGCGCA	CACACTAGAG	GACTGTGCCA	GGCGTAACCG	CAAGCAGGGT	TTGGACCCCG	240
CAAGCCAGAC	CAAGGTGGTA	GAACTGCTGA	AAGATGGCAG	TGGCAGGGCG	GGAGACCGCC	300
GCAGCAGCCG	AGACATGGCT	GGGGGTGCGC	GGCCTCGGTC	TGAGTCTGAC	CTCGAG	356

(2) INFORMATION FOR SEQ ID NO:1494:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1494:

GAATTCCGCC	TTCATGGCCT	AGTAAAGGGA	TTTATAATAA	CATTAaaaAT	TTCGTTAGAT	60
TCCAGCTGAG	CACGAGTATA	GCAGCATTAA	CTTTAATCTC	ATTGGCTACA	TTAATGAACT	120
TTCCTAATCC	TCTCAATGCC	ATGCAGATTT	TGTGGATCAA	TATTATTATG	GATGGACCCC	180
CAGCTCAGAG	CCTTGAGTA	GAACCAGTGG	ATAAAGATGT	CATTCGTAAA	CCTCCCTCGCA	240
ACTGGAAAGA	CAGCATTTTG	ACTAAAAACT	TGATACTTAA	AATACTTGT	TCATCAATAA	300
TCATTGTTTG	TGGGACTTTG	TTTGTCTTCT	GGCGTGAGCT	ACGAGACAAT	GTGATTACAC	360
CTCGAG						366

(2) INFORMATION FOR SEQ ID NO:1495:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 258 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1495:

GCTCGAGCGT	TGAGGTCAAC	ACTTCCTCCA	GGGAAAAGGA	TTCCATTAAT	AGATTGAAA	60
AGTATTTCA	AGTCTTCTC	TGTAAGATCC	AGCCTTACTG	GTACAACCTCT	CGCACCTGCA	120
GACTCCAAGT	ACTTTACATA	GGACGCAGCA	ATATAGTATC	TTCCATAGTT	TTTCATGACT	180
TTATTACCGC	ATTTTGCAT	TAATATTCCG	ATGATGGGCT	TCTTGGCGGT	GTCGCCGTGG	240
GGTCTAGACT	ATCTCGAG					258

(2) INFORMATION FOR SEQ ID NO:1496:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 437 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1496:

GAATTCCGCC	TCATGGCCTA	CTCTCTTCT	CCATGTTAAA	CCCCCTGGCA	TGAATGAAAG	60
GCTTCCCT	TTATCCTTGC	TGTGTTATT	CATTGTGTC	AATGAGCTTC	TGAAGGTAGG	120
AGTAACTTG	CACATTTCG	TGTGTGGCT	GCTGCATCTC	TGCCAAAAGG	TTTATGGGAT	180
TTTTACTCAG	GAGATCCAGG	AAAAGGAGGA	GCCTGGAATC	TAAGCACTTA	TCTCCTGAAA	240
AGGTACAGAA	ACATGTTGGA	GATCTTGAGC	CTCAAGGTGC	TTGCTTCAGA	ATTTTCTCTGA	300
TTCTCCCTCT	CCAGACCTAT	TCTGTTCTG	GGACCCAAGC	TTCTTGGCTC	CAGCCCACTC	360
CCCCACTAGA	GGAGCTGGAA	AGTTTGGTGC	TGTGGTCATA	CCAAAGATGG	GCAACACCCA	420
GACTCCTCAC	CCTCGAG					437

(2) INFORMATION FOR SEQ ID NO:1497:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 516 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1497:

GAATTCCGGCC	TTCATGGCCT	AGTCGAGGT	CTGGTGCCTG	ATGGTCGAGG	CCATCTCC	60
GGCCGCCCTGG	CGGCCATCGT	GGCTAACAG	GTACTGCTGG	GCCGGAAGGT	GGTGGTCGTA	120
CGCTGTGAAG	GCATCAACAT	TTCTGGCAAT	TTCTACAGAA	ACAAGTTGAA	GTACCTGGCT	180
TTCCCTCCGCA	AGCGGATGAA	CACCAACCCCT	TCCCGAGGCC	CCTACCACTT	CCGGGGCCCC	240
AGCCCCATCT	TCTGGCGGAC	CGTGGAGGT	ATGCTGCC	ACAAAACCAA	GCGAGGCCAG	300
GCCGCTCTGG	ACCGTCTCAA	GGTGTGAC	GCGATCCCAC	CGCCCTACGA	CAAGAAAAAG	360
CGGATGGTGG	TTCTGCTGC	CCTCAAGGTC	GTGCGTCTGA	AGCCTACAAG	AAAGTTGCC	420
TATCTGGGGC	GCCTGGCTCA	CGAGGTTGGC	TGGAAGTACC	AGGCAGTGAC	AGCCACCC	480
GAGGAGAAGA	GGAAAGAGAA	AGCCAAGAAC	CTCGAG			516

(2) INFORMATION FOR SEQ ID NO:1498:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 329 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1498:

GCGAGCTCCT	GACCTCAGGT	GATCTACCCG	CCTCAGCCTC	CCAAAGTGT	TT AGGATTACAG	60
GCGTGAGCCA	CCGCACTGG	CACCCCCCCC	CTTTTTTTTT	AATATAATG	ATCAGTCTTA	120
ACTCCCTAGG	TTATCAGGTT	GAGGGGGTGG	GGATGAGGCT	GGGGGACAGA	TTGTTTCCT	180
GGCTTCTAGC	TCGGTGTCT	TTCTGCCTCT	GTGCACAACA	AGGTATGCC	GTATTGTGGT	240
TGTGACTGT	GGTTGTGGAC	TGCCTATTCA	CAAGTGGCTA	TGAGGCCC	AT CTGCTGATGC	300
TTTTGGATGC	ACTTGGCGAT	GAAC	TCGAG			329

(2) INFORMATION FOR SEQ ID NO:1499:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 430 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1499:

GAATTCCGGCC	TTCATGGCCT	AGGAGGGCGG	TGGCCACCGA	ACGCTGCC	GAGCCCCGG	60
AGGGAGGAC	CGACGCGCG	CGTTTACCCA	GCGCAGCGTT	CCACCGCTCG	GGTTTGGCTG	120
GATAAAATAA	AAAATGGGA	TATTGACCTC	CTGTCACTAC	TGCATGGACT	TTGATGGTT	180
CCAATCATTA	CTTTCTCC	TGTGCAATC	TGCCTCTCG	AGAAATTCA	ACTCCTGAAT	240
AGCTCTCCAG	ACCCCCAGCT	GGCCATGTGG	TGAGTTCAAGG	GCCCCAAATCA	AGTAGTACCA	300
GCAATCAGGG	AACTCTTATC	TGTTTGAAAT	GGATTACAC	CAGCCACAAG	CCTGGAAAGA	360
TGGTGTACA	ATCTACAGTC	AGGCAGGATT	CTCCTGTGGA	GCCCTGGAA	GGGATCAGCG	420
ATCACTCGAG						430

(2) INFORMATION FOR SEQ ID NO:1500:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 375 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1500:

GAATTCTGGCC	TTCATGGCCT	AGCCAAGTCT	GGGAAGCCTT	AAGGAAAGGA	GTGCCCGTCG	60
GCGTCTTGGT	CCTCCTGTCC	CTGCTGCAGG	GGCTGGGGCC	TCCGGAGCTG	CTGGGGCTC	120
CCCTCAGGCT	CTGCTTCGTG	ACCCGTGACC	CATGACCCAC	AGTGCTGGCC	TCCGTGGGG	180
CCACTATAGC	ACCCACCAGA	AGCCGGGAGG	CCCTCAGGGA	ACCCCAAGGC	CTGCAGAAC	240
CTCCTGGCCT	GGCTGTGTCT	TCCCCACCCA	GCTCTCCCCT	GCGCCCCCTGT	CTTTGTAAAT	300
TGACCCCTTCT	GGAGTGGGGG	GCGGCGGGCA	GGGCTGCTTT	TCTTAGTCTG	ATACCAAGCA	360
AGGCCTTTTC	TCGAG					375

What is claimed is:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145,

SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217, SEQ ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEQ ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID NO:258, SEQ ID NO:259, SEQ ID NO:260, SEQ ID NO:261, SEQ ID NO:262, SEQ ID NO:263, SEQ ID NO:264, SEQ ID NO:265, SEQ ID NO:266, SEQ ID NO:267, SEQ ID NO:268, SEQ ID NO:269, SEQ ID NO:270, SEQ ID NO:271, SEQ ID NO:272, SEQ ID NO:273, SEQ ID NO:274, SEQ ID NO:275, SEQ ID NO:276, SEQ ID NO:277, SEQ ID NO:278, SEQ ID NO:279, SEQ ID NO:280, SEQ ID NO:281, SEQ ID NO:282, SEQ ID NO:283, SEQ ID NO:284, SEQ ID NO:285, SEQ ID NO:286, SEQ ID NO:287, SEQ ID NO:288, SEQ ID NO:289, SEQ ID NO:290, SEQ ID NO:291, SEQ ID NO:292, SEQ ID NO:293, SEQ ID NO:294, SEQ ID NO:295, SEQ ID NO:296, SEQ ID NO:297, SEQ ID NO:298,

SEQ ID NO:299, SEQ ID NO:300, SEQ ID NO:301, SEQ ID NO:302, SEQ ID NO:303, SEQ ID NO:304, SEQ ID NO:305, SEQ ID NO:306, SEQ ID NO:307, SEQ ID NO:308, SEQ ID NO:309, SEQ ID NO:310, SEQ ID NO:311, SEQ ID NO:312, SEQ ID NO:313, SEQ ID NO:314, SEQ ID NO:315, SEQ ID NO:316, SEQ ID NO:317, SEQ ID NO:318, SEQ ID NO:319, SEQ ID NO:320, SEQ ID NO:321, SEQ ID NO:322, SEQ ID NO:323, SEQ ID NO:324, SEQ ID NO:325, SEQ ID NO:326, SEQ ID NO:327, SEQ ID NO:328, SEQ ID NO:329, SEQ ID NO:330, SEQ ID NO:331, SEQ ID NO:332, SEQ ID NO:333, SEQ ID NO:334, SEQ ID NO:335, SEQ ID NO:336, SEQ ID NO:337, SEQ ID NO:338, SEQ ID NO:339, SEQ ID NO:340, SEQ ID NO:341, SEQ ID NO:342, SEQ ID NO:343, SEQ ID NO:344, SEQ ID NO:345, SEQ ID NO:346, SEQ ID NO:347, SEQ ID NO:348, SEQ ID NO:349, SEQ ID NO:350, SEQ ID NO:351, SEQ ID NO:352, SEQ ID NO:353, SEQ ID NO:354, SEQ ID NO:355, SEQ ID NO:356, SEQ ID NO:357, SEQ ID NO:358, SEQ ID NO:359, SEQ ID NO:360, SEQ ID NO:361, SEQ ID NO:362, SEQ ID NO:363, SEQ ID NO:364, SEQ ID NO:365, SEQ ID NO:366, SEQ ID NO:367, SEQ ID NO:368, SEQ ID NO:369, SEQ ID NO:370, SEQ ID NO:371, SEQ ID NO:372, SEQ ID NO:373, SEQ ID NO:374, SEQ ID NO:375, SEQ ID NO:376, SEQ ID NO:377, SEQ ID NO:378, SEQ ID NO:379, SEQ ID NO:380, SEQ ID NO:381, SEQ ID NO:382, SEQ ID NO:383, SEQ ID NO:384, SEQ ID NO:385, SEQ ID NO:386, SEQ ID NO:387, SEQ ID NO:388, SEQ ID NO:389, SEQ ID NO:390, SEQ ID NO:391, SEQ ID NO:392, SEQ ID NO:393, SEQ ID NO:394, SEQ ID NO:395, SEQ ID NO:396, SEQ ID NO:397, SEQ ID NO:398, SEQ ID NO:399, SEQ ID NO:400, SEQ ID NO:401, SEQ ID NO:402, SEQ ID NO:403, SEQ ID NO:404, SEQ ID NO:405, SEQ ID NO:406, SEQ ID NO:407, SEQ ID NO:408, SEQ ID NO:409, SEQ ID NO:410, SEQ ID NO:411, SEQ ID NO:412, SEQ ID NO:413, SEQ ID NO:414, SEQ ID NO:415, SEQ ID NO:416, SEQ ID NO:417, SEQ ID NO:418, SEQ ID NO:419, SEQ ID NO:420, SEQ ID NO:421, SEQ ID NO:422, SEQ ID NO:423, SEQ ID NO:424, SEQ ID NO:425, SEQ ID NO:426, SEQ ID NO:427, SEQ ID NO:428, SEQ ID NO:429, SEQ ID NO:430, SEQ ID NO:431, SEQ ID NO:432, SEQ ID NO:433, SEQ ID NO:434, SEQ ID NO:435, SEQ ID NO:436, SEQ ID NO:437, SEQ ID NO:438, SEQ ID NO:439, SEQ ID NO:440, SEQ ID NO:441, SEQ ID NO:442, SEQ ID NO:443, SEQ ID NO:444, SEQ ID NO:445, SEQ ID NO:446, SEQ ID NO:447, SEQ ID NO:448, SEQ ID NO:449, SEQ ID NO:450, SEQ ID NO:451,

SEQ ID NO:452, SEQ ID NO:453, SEQ ID NO:454, SEQ ID NO:455, SEQ ID NO:456, SEQ ID NO:457, SEQ ID NO:458, SEQ ID NO:459, SEQ ID NO:460, SEQ ID NO:461, SEQ ID NO:462, SEQ ID NO:463, SEQ ID NO:464, SEQ ID NO:465, SEQ ID NO:466, SEQ ID NO:467, SEQ ID NO:468, SEQ ID NO:469, SEQ ID NO:470, SEQ ID NO:471, SEQ ID NO:472, SEQ ID NO:473, SEQ ID NO:474, SEQ ID NO:475, SEQ ID NO:476, SEQ ID NO:477, SEQ ID NO:478, SEQ ID NO:479, SEQ ID NO:480, SEQ ID NO:481, SEQ ID NO:482, SEQ ID NO:483, SEQ ID NO:484, SEQ ID NO:485, SEQ ID NO:486, SEQ ID NO:487, SEQ ID NO:488, SEQ ID NO:489, SEQ ID NO:490, SEQ ID NO:491, SEQ ID NO:492, SEQ ID NO:493, SEQ ID NO:494, SEQ ID NO:495, SEQ ID NO:496, SEQ ID NO:497, SEQ ID NO:498, SEQ ID NO:499, SEQ ID NO:500, SEQ ID NO:501, SEQ ID NO:502, SEQ ID NO:503, SEQ ID NO:504, SEQ ID NO:505, SEQ ID NO:506, SEQ ID NO:507, SEQ ID NO:508, SEQ ID NO:509, SEQ ID NO:510, SEQ ID NO:511, SEQ ID NO:512, SEQ ID NO:513, SEQ ID NO:514, SEQ ID NO:515, SEQ ID NO:516, SEQ ID NO:517, SEQ ID NO:518, SEQ ID NO:519, SEQ ID NO:520, SEQ ID NO:521, SEQ ID NO:522, SEQ ID NO:523, SEQ ID NO:524, SEQ ID NO:525, SEQ ID NO:526, SEQ ID NO:527, SEQ ID NO:528, SEQ ID NO:529, SEQ ID NO:530, SEQ ID NO:531, SEQ ID NO:532, SEQ ID NO:533, SEQ ID NO:534, SEQ ID NO:535, SEQ ID NO:536, SEQ ID NO:537, SEQ ID NO:538, SEQ ID NO:539, SEQ ID NO:540, SEQ ID NO:541, SEQ ID NO:542, SEQ ID NO:543, SEQ ID NO:544, SEQ ID NO:545, SEQ ID NO:546, SEQ ID NO:547, SEQ ID NO:548, SEQ ID NO:549, SEQ ID NO:550, SEQ ID NO:551, SEQ ID NO:552, SEQ ID NO:553, SEQ ID NO:554, SEQ ID NO:555, SEQ ID NO:556, SEQ ID NO:557, SEQ ID NO:558, SEQ ID NO:559, SEQ ID NO:560, SEQ ID NO:561, SEQ ID NO:562, SEQ ID NO:563, SEQ ID NO:564, SEQ ID NO:565, SEQ ID NO:566, SEQ ID NO:567, SEQ ID NO:568, SEQ ID NO:569, SEQ ID NO:570, SEQ ID NO:571, SEQ ID NO:572, SEQ ID NO:573, SEQ ID NO:574, SEQ ID NO:575, SEQ ID NO:576, SEQ ID NO:577, SEQ ID NO:578, SEQ ID NO:579, SEQ ID NO:580, SEQ ID NO:581, SEQ ID NO:582, SEQ ID NO:583, SEQ ID NO:584, SEQ ID NO:585, SEQ ID NO:586, SEQ ID NO:587, SEQ ID NO:588, SEQ ID NO:589, SEQ ID NO:590, SEQ ID NO:591, SEQ ID NO:592, SEQ ID NO:593, SEQ ID NO:594, SEQ ID NO:595, SEQ ID NO:596, SEQ ID NO:597, SEQ ID NO:598, SEQ ID NO:599, SEQ ID NO:600, SEQ ID NO:601, SEQ ID NO:602, SEQ ID NO:603, SEQ ID NO:604,

SEQ ID NO:605, SEQ ID NO:606, SEQ ID NO:607, SEQ ID NO:608, SEQ ID NO:609, SEQ ID NO:610, SEQ ID NO:611, SEQ ID NO:612, SEQ ID NO:613, SEQ ID NO:614, SEQ ID NO:615, SEQ ID NO:616, SEQ ID NO:617, SEQ ID NO:618, SEQ ID NO:619, SEQ ID NO:620, SEQ ID NO:621, SEQ ID NO:622, SEQ ID NO:623, SEQ ID NO:624, SEQ ID NO:625, SEQ ID NO:626, SEQ ID NO:627, SEQ ID NO:628, SEQ ID NO:629, SEQ ID NO:630, SEQ ID NO:631, SEQ ID NO:632, SEQ ID NO:633, SEQ ID NO:634, SEQ ID NO:635, SEQ ID NO:636, SEQ ID NO:637, SEQ ID NO:638, SEQ ID NO:639, SEQ ID NO:640, SEQ ID NO:641, SEQ ID NO:642, SEQ ID NO:643, SEQ ID NO:644, SEQ ID NO:645, SEQ ID NO:646, SEQ ID NO:647, SEQ ID NO:648, SEQ ID NO:649, SEQ ID NO:650, SEQ ID NO:651, SEQ ID NO:652, SEQ ID NO:653, SEQ ID NO:654, SEQ ID NO:655, SEQ ID NO:656, SEQ ID NO:657, SEQ ID NO:658, SEQ ID NO:659, SEQ ID NO:660, SEQ ID NO:661, SEQ ID NO:662, SEQ ID NO:663, SEQ ID NO:664, SEQ ID NO:665, SEQ ID NO:666, SEQ ID NO:667, SEQ ID NO:668, SEQ ID NO:669, SEQ ID NO:670, SEQ ID NO:671, SEQ ID NO:672, SEQ ID NO:673, SEQ ID NO:674, SEQ ID NO:675, SEQ ID NO:676, SEQ ID NO:677, SEQ ID NO:678, SEQ ID NO:679, SEQ ID NO:680, SEQ ID NO:681, SEQ ID NO:682, SEQ ID NO:683, SEQ ID NO:684, SEQ ID NO:685, SEQ ID NO:686, SEQ ID NO:687, SEQ ID NO:688, SEQ ID NO:689, SEQ ID NO:690, SEQ ID NO:691, SEQ ID NO:692, SEQ ID NO:693, SEQ ID NO:694, SEQ ID NO:695, SEQ ID NO:696, SEQ ID NO:697, SEQ ID NO:698, SEQ ID NO:699, SEQ ID NO:700, SEQ ID NO:701, SEQ ID NO:702, SEQ ID NO:703, SEQ ID NO:704, SEQ ID NO:705, SEQ ID NO:706, SEQ ID NO:707, SEQ ID NO:708, SEQ ID NO:709, SEQ ID NO:710, SEQ ID NO:711, SEQ ID NO:712, SEQ ID NO:713, SEQ ID NO:714, SEQ ID NO:715, SEQ ID NO:716, SEQ ID NO:717, SEQ ID NO:718, SEQ ID NO:719, SEQ ID NO:720, SEQ ID NO:721, SEQ ID NO:722, SEQ ID NO:723, SEQ ID NO:724, SEQ ID NO:725, SEQ ID NO:726, SEQ ID NO:727, SEQ ID NO:728, SEQ ID NO:729, SEQ ID NO:730, SEQ ID NO:731, SEQ ID NO:732, SEQ ID NO:733, SEQ ID NO:734, SEQ ID NO:735, SEQ ID NO:736, SEQ ID NO:737, SEQ ID NO:738, SEQ ID NO:739, SEQ ID NO:740, SEQ ID NO:741, SEQ ID NO:742, SEQ ID NO:743, SEQ ID NO:744, SEQ ID NO:745, SEQ ID NO:746, SEQ ID NO:747, SEQ ID NO:748, SEQ ID NO:749, SEQ ID NO:750, SEQ ID NO:751, SEQ ID NO:752, SEQ ID NO:753, SEQ ID NO:754, SEQ ID NO:755, SEQ ID NO:756, SEQ ID NO:757,

SEQ ID NO:758, SEQ ID NO:759, SEQ ID NO:760, SEQ ID NO:761, SEQ ID NO:762, SEQ ID NO:763, SEQ ID NO:764, SEQ ID NO:765, SEQ ID NO:766, SEQ ID NO:767, SEQ ID NO:768, SEQ ID NO:769, SEQ ID NO:770, SEQ ID NO:771, SEQ ID NO:772, SEQ ID NO:773, SEQ ID NO:774, SEQ ID NO:775, SEQ ID NO:776, SEQ ID NO:777, SEQ ID NO:778, SEQ ID NO:779, SEQ ID NO:780, SEQ ID NO:781, SEQ ID NO:782, SEQ ID NO:783, SEQ ID NO:784, SEQ ID NO:785, SEQ ID NO:786, SEQ ID NO:787, SEQ ID NO:788, SEQ ID NO:789, SEQ ID NO:790, SEQ ID NO:791, SEQ ID NO:792, SEQ ID NO:793, SEQ ID NO:794, SEQ ID NO:795, SEQ ID NO:796, SEQ ID NO:797, SEQ ID NO:798, SEQ ID NO:799, SEQ ID NO:800, SEQ ID NO:801, SEQ ID NO:802, SEQ ID NO:803, SEQ ID NO:804, SEQ ID NO:805, SEQ ID NO:806, SEQ ID NO:807, SEQ ID NO:808, SEQ ID NO:809, SEQ ID NO:810, SEQ ID NO:811, SEQ ID NO:812, SEQ ID NO:813, SEQ ID NO:814, SEQ ID NO:815, SEQ ID NO:816, SEQ ID NO:817, SEQ ID NO:818, SEQ ID NO:819, SEQ ID NO:820, SEQ ID NO:821, SEQ ID NO:822, SEQ ID NO:823, SEQ ID NO:824, SEQ ID NO:825, SEQ ID NO:826, SEQ ID NO:827, SEQ ID NO:828, SEQ ID NO:829, SEQ ID NO:830, SEQ ID NO:831, SEQ ID NO:832, SEQ ID NO:833, SEQ ID NO:834, SEQ ID NO:835, SEQ ID NO:836, SEQ ID NO:837, SEQ ID NO:838, SEQ ID NO:839, SEQ ID NO:840, SEQ ID NO:841, SEQ ID NO:842, SEQ ID NO:843, SEQ ID NO:844, SEQ ID NO:845, SEQ ID NO:846, SEQ ID NO:847, SEQ ID NO:848, SEQ ID NO:849, SEQ ID NO:850, SEQ ID NO:851, SEQ ID NO:852, SEQ ID NO:853, SEQ ID NO:854, SEQ ID NO:855, SEQ ID NO:856, SEQ ID NO:857, SEQ ID NO:858, SEQ ID NO:859, SEQ ID NO:860, SEQ ID NO:861, SEQ ID NO:862, SEQ ID NO:863, SEQ ID NO:864, SEQ ID NO:865, SEQ ID NO:866, SEQ ID NO:867, SEQ ID NO:868, SEQ ID NO:869, SEQ ID NO:870, SEQ ID NO:871, SEQ ID NO:872, SEQ ID NO:873, SEQ ID NO:874, SEQ ID NO:875, SEQ ID NO:876, SEQ ID NO:877, SEQ ID NO:878, SEQ ID NO:879, SEQ ID NO:880, SEQ ID NO:881, SEQ ID NO:882, SEQ ID NO:883, SEQ ID NO:884, SEQ ID NO:885, SEQ ID NO:886, SEQ ID NO:887, SEQ ID NO:888, SEQ ID NO:889, SEQ ID NO:890, SEQ ID NO:891, SEQ ID NO:892, SEQ ID NO:893, SEQ ID NO:894, SEQ ID NO:895, SEQ ID NO:896, SEQ ID NO:897, SEQ ID NO:898, SEQ ID NO:899, SEQ ID NO:900, SEQ ID NO:901, SEQ ID NO:902, SEQ ID NO:903, SEQ ID NO:904, SEQ ID NO:905, SEQ ID NO:906, SEQ ID NO:907, SEQ ID NO:908, SEQ ID NO:909, SEQ ID NO:910,

SEQ ID NO:911, SEQ ID NO:912, SEQ ID NO:913, SEQ ID NO:914, SEQ ID NO:915, SEQ ID NO:916, SEQ ID NO:917, SEQ ID NO:918, SEQ ID NO:919, SEQ ID NO:920, SEQ ID NO:921, SEQ ID NO:922, SEQ ID NO:923, SEQ ID NO:924, SEQ ID NO:925, SEQ ID NO:926, SEQ ID NO:927, SEQ ID NO:928, SEQ ID NO:929, SEQ ID NO:930, SEQ ID NO:931, SEQ ID NO:932, SEQ ID NO:933, SEQ ID NO:934, SEQ ID NO:935, SEQ ID NO:936, SEQ ID NO:937, SEQ ID NO:938, SEQ ID NO:939, SEQ ID NO:940, SEQ ID NO:941, SEQ ID NO:942, SEQ ID NO:943, SEQ ID NO:944, SEQ ID NO:945, SEQ ID NO:946, SEQ ID NO:947, SEQ ID NO:948, SEQ ID NO:949, SEQ ID NO:950, SEQ ID NO:951, SEQ ID NO:952, SEQ ID NO:953, SEQ ID NO:954, SEQ ID NO:955, SEQ ID NO:956, SEQ ID NO:957, SEQ ID NO:958, SEQ ID NO:959, SEQ ID NO:960, SEQ ID NO:961, SEQ ID NO:962, SEQ ID NO:963, SEQ ID NO:964, SEQ ID NO:965, SEQ ID NO:966, SEQ ID NO:967, SEQ ID NO:968, SEQ ID NO:969, SEQ ID NO:970, SEQ ID NO:971, SEQ ID NO:972, SEQ ID NO:973, SEQ ID NO:974, SEQ ID NO:975, SEQ ID NO:976, SEQ ID NO:977, SEQ ID NO:978, SEQ ID NO:979, SEQ ID NO:980, SEQ ID NO:981, SEQ ID NO:982, SEQ ID NO:983, SEQ ID NO:984, SEQ ID NO:985, SEQ ID NO:986, SEQ ID NO:987, SEQ ID NO:988, SEQ ID NO:989, SEQ ID NO:990, SEQ ID NO:991, SEQ ID NO:992, SEQ ID NO:993, SEQ ID NO:994, SEQ ID NO:995, SEQ ID NO:996, SEQ ID NO:997, SEQ ID NO:998, SEQ ID NO:999, SEQ ID NO:1000, SEQ ID NO:1001, SEQ ID NO:1002, SEQ ID NO:1003, SEQ ID NO:1004, SEQ ID NO:1005, SEQ ID NO:1006, SEQ ID NO:1007, SEQ ID NO:1008, SEQ ID NO:1009, SEQ ID NO:1010, SEQ ID NO:1011, SEQ ID NO:1012, SEQ ID NO:1013, SEQ ID NO:1014, SEQ ID NO:1015, SEQ ID NO:1016, SEQ ID NO:1017, SEQ ID NO:1018, SEQ ID NO:1019, SEQ ID NO:1020, SEQ ID NO:1021, SEQ ID NO:1022, SEQ ID NO:1023, SEQ ID NO:1024, SEQ ID NO:1025, SEQ ID NO:1026, SEQ ID NO:1027, SEQ ID NO:1028, SEQ ID NO:1029, SEQ ID NO:1030, SEQ ID NO:1031, SEQ ID NO:1032, SEQ ID NO:1033, SEQ ID NO:1034, SEQ ID NO:1035, SEQ ID NO:1036, SEQ ID NO:1037, SEQ ID NO:1038, SEQ ID NO:1039, SEQ ID NO:1040, SEQ ID NO:1041, SEQ ID NO:1042, SEQ ID NO:1043, SEQ ID NO:1044, SEQ ID NO:1045, SEQ ID NO:1046, SEQ ID NO:1047, SEQ ID NO:1048, SEQ ID NO:1049, SEQ ID NO:1050, SEQ ID NO:1051, SEQ ID NO:1052, SEQ ID NO:1053, SEQ ID NO:1054, SEQ ID NO:1055, SEQ ID NO:1056, SEQ ID

NO:1193, SEQ ID NO:1194, SEQ ID NO:1195, SEQ ID NO:1196, SEQ ID NO:1197, SEQ ID NO:1198, SEQ ID NO:1199, SEQ ID NO:1200, SEQ ID NO:1201, SEQ ID NO:1202, SEQ ID NO:1203, SEQ ID NO:1204, SEQ ID NO:1205, SEQ ID NO:1206, SEQ ID NO:1207, SEQ ID NO:1208, SEQ ID NO:1209, SEQ ID NO:1210, SEQ ID NO:1211, SEQ ID NO:1212, SEQ ID NO:1213, SEQ ID NO:1214, SEQ ID NO:1215, SEQ ID NO:1216, SEQ ID NO:1217, SEQ ID NO:1218, SEQ ID NO:1219, SEQ ID NO:1220, SEQ ID NO:1221, SEQ ID NO:1222, SEQ ID NO:1223, SEQ ID NO:1224, SEQ ID NO:1225, SEQ ID NO:1226, SEQ ID NO:1227, SEQ ID NO:1228, SEQ ID NO:1229, SEQ ID NO:1230, SEQ ID NO:1231, SEQ ID NO:1232, SEQ ID NO:1233, SEQ ID NO:1234, SEQ ID NO:1235, SEQ ID NO:1236, SEQ ID NO:1237, SEQ ID NO:1238, SEQ ID NO:1239, SEQ ID NO:1240, SEQ ID NO:1241, SEQ ID NO:1242, SEQ ID NO:1243, SEQ ID NO:1244, SEQ ID NO:1245, SEQ ID NO:1246, SEQ ID NO:1247, SEQ ID NO:1248, SEQ ID NO:1249, SEQ ID NO:1250, SEQ ID NO:1251, SEQ ID NO:1252, SEQ ID NO:1253, SEQ ID NO:1254, SEQ ID NO:1255, SEQ ID NO:1256, SEQ ID NO:1257, SEQ ID NO:1258, SEQ ID NO:1259, SEQ ID NO:1260, SEQ ID NO:1261, SEQ ID NO:1262, SEQ ID NO:1263, SEQ ID NO:1264, SEQ ID NO:1265, SEQ ID NO:1266, SEQ ID NO:1267, SEQ ID NO:1268, SEQ ID NO:1269, SEQ ID NO:1270, SEQ ID NO:1271, SEQ ID NO:1272, SEQ ID NO:1273, SEQ ID NO:1274, SEQ ID NO:1275, SEQ ID NO:1276, SEQ ID NO:1277, SEQ ID NO:1278, SEQ ID NO:1279, SEQ ID NO:1280, SEQ ID NO:1281, SEQ ID NO:1282, SEQ ID NO:1283, SEQ ID NO:1284, SEQ ID NO:1285, SEQ ID NO:1286, SEQ ID NO:1287, SEQ ID NO:1288, SEQ ID NO:1289, SEQ ID NO:1290, SEQ ID NO:1291, SEQ ID NO:1292, SEQ ID NO:1293, SEQ ID NO:1294, SEQ ID NO:1295, SEQ ID NO:1296, SEQ ID NO:1297, SEQ ID NO:1298, SEQ ID NO:1299, SEQ ID NO:1300, SEQ ID NO:1301, SEQ ID NO:1302, SEQ ID NO:1303, SEQ ID NO:1304, SEQ ID NO:1305, SEQ ID NO:1306, SEQ ID NO:1307, SEQ ID NO:1308, SEQ ID NO:1309, SEQ ID NO:1310, SEQ ID NO:1311, SEQ ID NO:1312, SEQ ID NO:1313, SEQ ID NO:1314, SEQ ID NO:1315, SEQ ID NO:1316, SEQ ID NO:1317, SEQ ID NO:1318, SEQ ID NO:1319, SEQ ID NO:1320, SEQ ID NO:1321, SEQ ID NO:1322, SEQ ID NO:1323, SEQ ID NO:1324, SEQ ID NO:1325, SEQ ID NO:1326, SEQ ID NO:1327, SEQ ID NO:1328, SEQ ID

NO:1465, SEQ ID NO:1466, SEQ ID NO:1467, SEQ ID NO:1468, SEQ ID NO:1469, SEQ ID NO:1470, SEQ ID NO:1471, SEQ ID NO:1472, SEQ ID NO:1473, SEQ ID NO:1474, SEQ ID NO:1475, SEQ ID NO:1476, SEQ ID NO:1477, SEQ ID NO:1478, SEQ ID NO:1479, SEQ ID NO:1480, SEQ ID NO:1481, SEQ ID NO:1482, SEQ ID NO:1483, SEQ ID NO:1484, SEQ ID NO:1485, SEQ ID NO:1486, SEQ ID NO:1487, SEQ ID NO:1488, SEQ ID NO:1489, SEQ ID NO:1490, SEQ ID NO:1491, SEQ ID NO:1492, SEQ ID NO:1493, SEQ ID NO:1494, SEQ ID NO:1495, SEQ ID NO:1496, SEQ ID NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, and SEQ ID NO:1500; or a complement of said sequence.

2. An isolated polynucleotide consisting of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID

NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217, SEQ ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEQ ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID

NO:258, SEQ ID NO:259, SEQ ID NO:260, SEQ ID NO:261, SEQ ID NO:262, SEQ ID NO:263, SEQ ID NO:264, SEQ ID NO:265, SEQ ID NO:266, SEQ ID NO:267, SEQ ID NO:268, SEQ ID NO:269, SEQ ID NO:270, SEQ ID NO:271, SEQ ID NO:272, SEQ ID NO:273, SEQ ID NO:274, SEQ ID NO:275, SEQ ID NO:276, SEQ ID NO:277, SEQ ID NO:278, SEQ ID NO:279, SEQ ID NO:280, SEQ ID NO:281, SEQ ID NO:282, SEQ ID NO:283, SEQ ID NO:284, SEQ ID NO:285, SEQ ID NO:286, SEQ ID NO:287, SEQ ID NO:288, SEQ ID NO:289, SEQ ID NO:290, SEQ ID NO:291, SEQ ID NO:292, SEQ ID NO:293, SEQ ID NO:294, SEQ ID NO:295, SEQ ID NO:296, SEQ ID NO:297, SEQ ID NO:298, SEQ ID NO:299, SEQ ID NO:300, SEQ ID NO:301, SEQ ID NO:302, SEQ ID NO:303, SEQ ID NO:304, SEQ ID NO:305, SEQ ID NO:306, SEQ ID NO:307, SEQ ID NO:308, SEQ ID NO:309, SEQ ID NO:310, SEQ ID NO:311, SEQ ID NO:312, SEQ ID NO:313, SEQ ID NO:314, SEQ ID NO:315, SEQ ID NO:316, SEQ ID NO:317, SEQ ID NO:318, SEQ ID NO:319, SEQ ID NO:320, SEQ ID NO:321, SEQ ID NO:322, SEQ ID NO:323, SEQ ID NO:324, SEQ ID NO:325, SEQ ID NO:326, SEQ ID NO:327, SEQ ID NO:328, SEQ ID NO:329, SEQ ID NO:330, SEQ ID NO:331, SEQ ID NO:332, SEQ ID NO:333, SEQ ID NO:334, SEQ ID NO:335, SEQ ID NO:336, SEQ ID NO:337, SEQ ID NO:338, SEQ ID NO:339, SEQ ID NO:340, SEQ ID NO:341, SEQ ID NO:342, SEQ ID NO:343, SEQ ID NO:344, SEQ ID NO:345, SEQ ID NO:346, SEQ ID NO:347, SEQ ID NO:348, SEQ ID NO:349, SEQ ID NO:350, SEQ ID NO:351, SEQ ID NO:352, SEQ ID NO:353, SEQ ID NO:354, SEQ ID NO:355, SEQ ID NO:356, SEQ ID NO:357, SEQ ID NO:358, SEQ ID NO:359, SEQ ID NO:360, SEQ ID NO:361, SEQ ID NO:362, SEQ ID NO:363, SEQ ID NO:364, SEQ ID NO:365, SEQ ID NO:366, SEQ ID NO:367, SEQ ID NO:368, SEQ ID NO:369, SEQ ID NO:370, SEQ ID NO:371, SEQ ID NO:372, SEQ ID NO:373, SEQ ID NO:374, SEQ ID NO:375, SEQ ID NO:376, SEQ ID NO:377, SEQ ID NO:378, SEQ ID NO:379, SEQ ID NO:380, SEQ ID NO:381, SEQ ID NO:382, SEQ ID NO:383, SEQ ID NO:384, SEQ ID NO:385, SEQ ID NO:386, SEQ ID NO:387, SEQ ID NO:388, SEQ ID NO:389, SEQ ID NO:390, SEQ ID NO:391, SEQ ID NO:392, SEQ ID NO:393, SEQ ID NO:394, SEQ ID NO:395, SEQ ID NO:396, SEQ ID NO:397, SEQ ID NO:398, SEQ ID NO:399, SEQ ID NO:400, SEQ ID NO:401, SEQ ID NO:402, SEQ ID NO:403, SEQ ID NO:404, SEQ ID NO:405, SEQ ID NO:406, SEQ ID NO:407, SEQ ID NO:408, SEQ ID NO:409, SEQ ID NO:410, SEQ ID

NO:411, SEQ ID NO:412, SEQ ID NO:413, SEQ ID NO:414, SEQ ID NO:415, SEQ ID NO:416, SEQ ID NO:417, SEQ ID NO:418, SEQ ID NO:419, SEQ ID NO:420, SEQ ID NO:421, SEQ ID NO:422, SEQ ID NO:423, SEQ ID NO:424, SEQ ID NO:425, SEQ ID NO:426, SEQ ID NO:427, SEQ ID NO:428, SEQ ID NO:429, SEQ ID NO:430, SEQ ID NO:431, SEQ ID NO:432, SEQ ID NO:433, SEQ ID NO:434, SEQ ID NO:435, SEQ ID NO:436, SEQ ID NO:437, SEQ ID NO:438, SEQ ID NO:439, SEQ ID NO:440, SEQ ID NO:441, SEQ ID NO:442, SEQ ID NO:443, SEQ ID NO:444, SEQ ID NO:445, SEQ ID NO:446, SEQ ID NO:447, SEQ ID NO:448, SEQ ID NO:449, SEQ ID NO:450, SEQ ID NO:451, SEQ ID NO:452, SEQ ID NO:453, SEQ ID NO:454, SEQ ID NO:455, SEQ ID NO:456, SEQ ID NO:457, SEQ ID NO:458, SEQ ID NO:459, SEQ ID NO:460, SEQ ID NO:461, SEQ ID NO:462, SEQ ID NO:463, SEQ ID NO:464, SEQ ID NO:465, SEQ ID NO:466, SEQ ID NO:467, SEQ ID NO:468, SEQ ID NO:469, SEQ ID NO:470, SEQ ID NO:471, SEQ ID NO:472, SEQ ID NO:473, SEQ ID NO:474, SEQ ID NO:475, SEQ ID NO:476, SEQ ID NO:477, SEQ ID NO:478, SEQ ID NO:479, SEQ ID NO:480, SEQ ID NO:481, SEQ ID NO:482, SEQ ID NO:483, SEQ ID NO:484, SEQ ID NO:485, SEQ ID NO:486, SEQ ID NO:487, SEQ ID NO:488, SEQ ID NO:489, SEQ ID NO:490, SEQ ID NO:491, SEQ ID NO:492, SEQ ID NO:493, SEQ ID NO:494, SEQ ID NO:495, SEQ ID NO:496, SEQ ID NO:497, SEQ ID NO:498, SEQ ID NO:499, SEQ ID NO:500, SEQ ID NO:501, SEQ ID NO:502, SEQ ID NO:503, SEQ ID NO:504, SEQ ID NO:505, SEQ ID NO:506, SEQ ID NO:507, SEQ ID NO:508, SEQ ID NO:509, SEQ ID NO:510, SEQ ID NO:511, SEQ ID NO:512, SEQ ID NO:513, SEQ ID NO:514, SEQ ID NO:515, SEQ ID NO:516, SEQ ID NO:517, SEQ ID NO:518, SEQ ID NO:519, SEQ ID NO:520, SEQ ID NO:521, SEQ ID NO:522, SEQ ID NO:523, SEQ ID NO:524, SEQ ID NO:525, SEQ ID NO:526, SEQ ID NO:527, SEQ ID NO:528, SEQ ID NO:529, SEQ ID NO:530, SEQ ID NO:531, SEQ ID NO:532, SEQ ID NO:533, SEQ ID NO:534, SEQ ID NO:535, SEQ ID NO:536, SEQ ID NO:537, SEQ ID NO:538, SEQ ID NO:539, SEQ ID NO:540, SEQ ID NO:541, SEQ ID NO:542, SEQ ID NO:543, SEQ ID NO:544, SEQ ID NO:545, SEQ ID NO:546, SEQ ID NO:547, SEQ ID NO:548, SEQ ID NO:549, SEQ ID NO:550, SEQ ID NO:551, SEQ ID NO:552, SEQ ID NO:553, SEQ ID NO:554, SEQ ID NO:555, SEQ ID NO:556, SEQ ID NO:557, SEQ ID NO:558, SEQ ID NO:559, SEQ ID NO:560, SEQ ID NO:561, SEQ ID NO:562, SEQ ID NO:563, SEQ ID

NO:564, SEQ ID NO:565, SEQ ID NO:566, SEQ ID NO:567, SEQ ID NO:568, SEQ ID NO:569, SEQ ID NO:570, SEQ ID NO:571, SEQ ID NO:572, SEQ ID NO:573, SEQ ID NO:574, SEQ ID NO:575, SEQ ID NO:576, SEQ ID NO:577, SEQ ID NO:578, SEQ ID NO:579, SEQ ID NO:580, SEQ ID NO:581, SEQ ID NO:582, SEQ ID NO:583, SEQ ID NO:584, SEQ ID NO:585, SEQ ID NO:586, SEQ ID NO:587, SEQ ID NO:588, SEQ ID NO:589, SEQ ID NO:590, SEQ ID NO:591, SEQ ID NO:592, SEQ ID NO:593, SEQ ID NO:594, SEQ ID NO:595, SEQ ID NO:596, SEQ ID NO:597, SEQ ID NO:598, SEQ ID NO:599, SEQ ID NO:600, SEQ ID NO:601, SEQ ID NO:602, SEQ ID NO:603, SEQ ID NO:604, SEQ ID NO:605, SEQ ID NO:606, SEQ ID NO:607, SEQ ID NO:608, SEQ ID NO:609, SEQ ID NO:610, SEQ ID NO:611, SEQ ID NO:612, SEQ ID NO:613, SEQ ID NO:614, SEQ ID NO:615, SEQ ID NO:616, SEQ ID NO:617, SEQ ID NO:618, SEQ ID NO:619, SEQ ID NO:620, SEQ ID NO:621, SEQ ID NO:622, SEQ ID NO:623, SEQ ID NO:624, SEQ ID NO:625, SEQ ID NO:626, SEQ ID NO:627, SEQ ID NO:628, SEQ ID NO:629, SEQ ID NO:630, SEQ ID NO:631, SEQ ID NO:632, SEQ ID NO:633, SEQ ID NO:634, SEQ ID NO:635, SEQ ID NO:636, SEQ ID NO:637, SEQ ID NO:638, SEQ ID NO:639, SEQ ID NO:640, SEQ ID NO:641, SEQ ID NO:642, SEQ ID NO:643, SEQ ID NO:644, SEQ ID NO:645, SEQ ID NO:646, SEQ ID NO:647, SEQ ID NO:648, SEQ ID NO:649, SEQ ID NO:650, SEQ ID NO:651, SEQ ID NO:652, SEQ ID NO:653, SEQ ID NO:654, SEQ ID NO:655, SEQ ID NO:656, SEQ ID NO:657, SEQ ID NO:658, SEQ ID NO:659, SEQ ID NO:660, SEQ ID NO:661, SEQ ID NO:662, SEQ ID NO:663, SEQ ID NO:664, SEQ ID NO:665, SEQ ID NO:666, SEQ ID NO:667, SEQ ID NO:668, SEQ ID NO:669, SEQ ID NO:670, SEQ ID NO:671, SEQ ID NO:672, SEQ ID NO:673, SEQ ID NO:674, SEQ ID NO:675, SEQ ID NO:676, SEQ ID NO:677, SEQ ID NO:678, SEQ ID NO:679, SEQ ID NO:680, SEQ ID NO:681, SEQ ID NO:682, SEQ ID NO:683, SEQ ID NO:684, SEQ ID NO:685, SEQ ID NO:686, SEQ ID NO:687, SEQ ID NO:688, SEQ ID NO:689, SEQ ID NO:690, SEQ ID NO:691, SEQ ID NO:692, SEQ ID NO:693, SEQ ID NO:694, SEQ ID NO:695, SEQ ID NO:696, SEQ ID NO:697, SEQ ID NO:698, SEQ ID NO:699, SEQ ID NO:700, SEQ ID NO:701, SEQ ID NO:702, SEQ ID NO:703, SEQ ID NO:704, SEQ ID NO:705, SEQ ID NO:706, SEQ ID NO:707, SEQ ID NO:708, SEQ ID NO:709, SEQ ID NO:710, SEQ ID NO:711, SEQ ID NO:712, SEQ ID NO:713, SEQ ID NO:714, SEQ ID NO:715, SEQ ID NO:716, SEQ ID

NO:717, SEQ ID NO:718, SEQ ID NO:719, SEQ ID NO:720, SEQ ID NO:721, SEQ ID NO:722, SEQ ID NO:723, SEQ ID NO:724, SEQ ID NO:725, SEQ ID NO:726, SEQ ID NO:727, SEQ ID NO:728, SEQ ID NO:729, SEQ ID NO:730, SEQ ID NO:731, SEQ ID NO:732, SEQ ID NO:733, SEQ ID NO:734, SEQ ID NO:735, SEQ ID NO:736, SEQ ID NO:737, SEQ ID NO:738, SEQ ID NO:739, SEQ ID NO:740, SEQ ID NO:741, SEQ ID NO:742, SEQ ID NO:743, SEQ ID NO:744, SEQ ID NO:745, SEQ ID NO:746, SEQ ID NO:747, SEQ ID NO:748, SEQ ID NO:749, SEQ ID NO:750, SEQ ID NO:751, SEQ ID NO:752, SEQ ID NO:753, SEQ ID NO:754, SEQ ID NO:755, SEQ ID NO:756, SEQ ID NO:757, SEQ ID NO:758, SEQ ID NO:759, SEQ ID NO:760, SEQ ID NO:761, SEQ ID NO:762, SEQ ID NO:763, SEQ ID NO:764, SEQ ID NO:765, SEQ ID NO:766, SEQ ID NO:767, SEQ ID NO:768, SEQ ID NO:769, SEQ ID NO:770, SEQ ID NO:771, SEQ ID NO:772, SEQ ID NO:773, SEQ ID NO:774, SEQ ID NO:775, SEQ ID NO:776, SEQ ID NO:777, SEQ ID NO:778, SEQ ID NO:779, SEQ ID NO:780, SEQ ID NO:781, SEQ ID NO:782, SEQ ID NO:783, SEQ ID NO:784, SEQ ID NO:785, SEQ ID NO:786, SEQ ID NO:787, SEQ ID NO:788, SEQ ID NO:789, SEQ ID NO:790, SEQ ID NO:791, SEQ ID NO:792, SEQ ID NO:793, SEQ ID NO:794, SEQ ID NO:795, SEQ ID NO:796, SEQ ID NO:797, SEQ ID NO:798, SEQ ID NO:799, SEQ ID NO:800, SEQ ID NO:801, SEQ ID NO:802, SEQ ID NO:803, SEQ ID NO:804, SEQ ID NO:805, SEQ ID NO:806, SEQ ID NO:807, SEQ ID NO:808, SEQ ID NO:809, SEQ ID NO:810, SEQ ID NO:811, SEQ ID NO:812, SEQ ID NO:813, SEQ ID NO:814, SEQ ID NO:815, SEQ ID NO:816, SEQ ID NO:817, SEQ ID NO:818, SEQ ID NO:819, SEQ ID NO:820, SEQ ID NO:821, SEQ ID NO:822, SEQ ID NO:823, SEQ ID NO:824, SEQ ID NO:825, SEQ ID NO:826, SEQ ID NO:827, SEQ ID NO:828, SEQ ID NO:829, SEQ ID NO:830, SEQ ID NO:831, SEQ ID NO:832, SEQ ID NO:833, SEQ ID NO:834, SEQ ID NO:835, SEQ ID NO:836, SEQ ID NO:837, SEQ ID NO:838, SEQ ID NO:839, SEQ ID NO:840, SEQ ID NO:841, SEQ ID NO:842, SEQ ID NO:843, SEQ ID NO:844, SEQ ID NO:845, SEQ ID NO:846, SEQ ID NO:847, SEQ ID NO:848, SEQ ID NO:849, SEQ ID NO:850, SEQ ID NO:851, SEQ ID NO:852, SEQ ID NO:853, SEQ ID NO:854, SEQ ID NO:855, SEQ ID NO:856, SEQ ID NO:857, SEQ ID NO:858, SEQ ID NO:859, SEQ ID NO:860, SEQ ID NO:861, SEQ ID NO:862, SEQ ID NO:863, SEQ ID NO:864, SEQ ID NO:865, SEQ ID NO:866, SEQ ID NO:867, SEQ ID NO:868, SEQ ID NO:869, SEQ ID

NO:870, SEQ ID NO:871, SEQ ID NO:872, SEQ ID NO:873, SEQ ID NO:874, SEQ ID NO:875, SEQ ID NO:876, SEQ ID NO:877, SEQ ID NO:878, SEQ ID NO:879, SEQ ID NO:880, SEQ ID NO:881, SEQ ID NO:882, SEQ ID NO:883, SEQ ID NO:884, SEQ ID NO:885, SEQ ID NO:886, SEQ ID NO:887, SEQ ID NO:888, SEQ ID NO:889, SEQ ID NO:890, SEQ ID NO:891, SEQ ID NO:892, SEQ ID NO:893, SEQ ID NO:894, SEQ ID NO:895, SEQ ID NO:896, SEQ ID NO:897, SEQ ID NO:898, SEQ ID NO:899, SEQ ID NO:900, SEQ ID NO:901, SEQ ID NO:902, SEQ ID NO:903, SEQ ID NO:904, SEQ ID NO:905, SEQ ID NO:906, SEQ ID NO:907, SEQ ID NO:908, SEQ ID NO:909, SEQ ID NO:910, SEQ ID NO:911, SEQ ID NO:912, SEQ ID NO:913, SEQ ID NO:914, SEQ ID NO:915, SEQ ID NO:916, SEQ ID NO:917, SEQ ID NO:918, SEQ ID NO:919, SEQ ID NO:920, SEQ ID NO:921, SEQ ID NO:922, SEQ ID NO:923, SEQ ID NO:924, SEQ ID NO:925, SEQ ID NO:926, SEQ ID NO:927, SEQ ID NO:928, SEQ ID NO:929, SEQ ID NO:930, SEQ ID NO:931, SEQ ID NO:932, SEQ ID NO:933, SEQ ID NO:934, SEQ ID NO:935, SEQ ID NO:936, SEQ ID NO:937, SEQ ID NO:938, SEQ ID NO:939, SEQ ID NO:940, SEQ ID NO:941, SEQ ID NO:942, SEQ ID NO:943, SEQ ID NO:944, SEQ ID NO:945, SEQ ID NO:946, SEQ ID NO:947, SEQ ID NO:948, SEQ ID NO:949, SEQ ID NO:950, SEQ ID NO:951, SEQ ID NO:952, SEQ ID NO:953, SEQ ID NO:954, SEQ ID NO:955, SEQ ID NO:956, SEQ ID NO:957, SEQ ID NO:958, SEQ ID NO:959, SEQ ID NO:960, SEQ ID NO:961, SEQ ID NO:962, SEQ ID NO:963, SEQ ID NO:964, SEQ ID NO:965, SEQ ID NO:966, SEQ ID NO:967, SEQ ID NO:968, SEQ ID NO:969, SEQ ID NO:970, SEQ ID NO:971, SEQ ID NO:972, SEQ ID NO:973, SEQ ID NO:974, SEQ ID NO:975, SEQ ID NO:976, SEQ ID NO:977, SEQ ID NO:978, SEQ ID NO:979, SEQ ID NO:980, SEQ ID NO:981, SEQ ID NO:982, SEQ ID NO:983, SEQ ID NO:984, SEQ ID NO:985, SEQ ID NO:986, SEQ ID NO:987, SEQ ID NO:988, SEQ ID NO:989, SEQ ID NO:990, SEQ ID NO:991, SEQ ID NO:992, SEQ ID NO:993, SEQ ID NO:994, SEQ ID NO:995, SEQ ID NO:996, SEQ ID NO:997, SEQ ID NO:998, SEQ ID NO:999, SEQ ID NO:1000, SEQ ID NO:1001, SEQ ID NO:1002, SEQ ID NO:1003, SEQ ID NO:1004, SEQ ID NO:1005, SEQ ID NO:1006, SEQ ID NO:1007, SEQ ID NO:1008, SEQ ID NO:1009, SEQ ID NO:1010, SEQ ID NO:1011, SEQ ID NO:1012, SEQ ID NO:1013, SEQ ID NO:1014, SEQ ID NO:1015, SEQ ID NO:1016, SEQ ID NO:1017, SEQ ID NO:1018, SEQ ID NO:1019, SEQ ID NO:1020, SEQ ID

NO:1021, SEQ ID NO:1022, SEQ ID NO:1023, SEQ ID NO:1024, SEQ ID NO:1025, SEQ ID NO:1026, SEQ ID NO:1027, SEQ ID NO:1028, SEQ ID NO:1029, SEQ ID NO:1030, SEQ ID NO:1031, SEQ ID NO:1032, SEQ ID NO:1033, SEQ ID NO:1034, SEQ ID NO:1035, SEQ ID NO:1036, SEQ ID NO:1037, SEQ ID NO:1038, SEQ ID NO:1039, SEQ ID NO:1040, SEQ ID NO:1041, SEQ ID NO:1042, SEQ ID NO:1043, SEQ ID NO:1044, SEQ ID NO:1045, SEQ ID NO:1046, SEQ ID NO:1047, SEQ ID NO:1048, SEQ ID NO:1049, SEQ ID NO:1050, SEQ ID NO:1051, SEQ ID NO:1052, SEQ ID NO:1053, SEQ ID NO:1054, SEQ ID NO:1055, SEQ ID NO:1056, SEQ ID NO:1057, SEQ ID NO:1058, SEQ ID NO:1059, SEQ ID NO:1060, SEQ ID NO:1061, SEQ ID NO:1062, SEQ ID NO:1063, SEQ ID NO:1064, SEQ ID NO:1065, SEQ ID NO:1066, SEQ ID NO:1067, SEQ ID NO:1068, SEQ ID NO:1069, SEQ ID NO:1070, SEQ ID NO:1071, SEQ ID NO:1072, SEQ ID NO:1073, SEQ ID NO:1074, SEQ ID NO:1075, SEQ ID NO:1076, SEQ ID NO:1077, SEQ ID NO:1078, SEQ ID NO:1079, SEQ ID NO:1080, SEQ ID NO:1081, SEQ ID NO:1082, SEQ ID NO:1083, SEQ ID NO:1084, SEQ ID NO:1085, SEQ ID NO:1086, SEQ ID NO:1087, SEQ ID NO:1088, SEQ ID NO:1089, SEQ ID NO:1090, SEQ ID NO:1091, SEQ ID NO:1092, SEQ ID NO:1093, SEQ ID NO:1094, SEQ ID NO:1095, SEQ ID NO:1096, SEQ ID NO:1097, SEQ ID NO:1098, SEQ ID NO:1099, SEQ ID NO:1100, SEQ ID NO:1101, SEQ ID NO:1102, SEQ ID NO:1103, SEQ ID NO:1104, SEQ ID NO:1105, SEQ ID NO:1106, SEQ ID NO:1107, SEQ ID NO:1108, SEQ ID NO:1109, SEQ ID NO:1110, SEQ ID NO:1111, SEQ ID NO:1112, SEQ ID NO:1113, SEQ ID NO:1114, SEQ ID NO:1115, SEQ ID NO:1116, SEQ ID NO:1117, SEQ ID NO:1118, SEQ ID NO:1119, SEQ ID NO:1120, SEQ ID NO:1121, SEQ ID NO:1122, SEQ ID NO:1123, SEQ ID NO:1124, SEQ ID NO:1125, SEQ ID NO:1126, SEQ ID NO:1127, SEQ ID NO:1128, SEQ ID NO:1129, SEQ ID NO:1130, SEQ ID NO:1131, SEQ ID NO:1132, SEQ ID NO:1133, SEQ ID NO:1134, SEQ ID NO:1135, SEQ ID NO:1136, SEQ ID NO:1137, SEQ ID NO:1138, SEQ ID NO:1139, SEQ ID NO:1140, SEQ ID NO:1141, SEQ ID NO:1142, SEQ ID NO:1143, SEQ ID NO:1144, SEQ ID NO:1145, SEQ ID NO:1146, SEQ ID NO:1147, SEQ ID NO:1148, SEQ ID NO:1149, SEQ ID NO:1150, SEQ ID NO:1151, SEQ ID NO:1152, SEQ ID NO:1153, SEQ ID NO:1154, SEQ ID NO:1155, SEQ ID NO:1156, SEQ ID

NO:1293, SEQ ID NO:1294, SEQ ID NO:1295, SEQ ID NO:1296, SEQ ID NO:1297, SEQ ID NO:1298, SEQ ID NO:1299, SEQ ID NO:1300, SEQ ID NO:1301, SEQ ID NO:1302, SEQ ID NO:1303, SEQ ID NO:1304, SEQ ID NO:1305, SEQ ID NO:1306, SEQ ID NO:1307, SEQ ID NO:1308, SEQ ID NO:1309, SEQ ID NO:1310, SEQ ID NO:1311, SEQ ID NO:1312, SEQ ID NO:1313, SEQ ID NO:1314, SEQ ID NO:1315, SEQ ID NO:1316, SEQ ID NO:1317, SEQ ID NO:1318, SEQ ID NO:1319, SEQ ID NO:1320, SEQ ID NO:1321, SEQ ID NO:1322, SEQ ID NO:1323, SEQ ID NO:1324, SEQ ID NO:1325, SEQ ID NO:1326, SEQ ID NO:1327, SEQ ID NO:1328, SEQ ID NO:1329, SEQ ID NO:1330, SEQ ID NO:1331, SEQ ID NO:1332, SEQ ID NO:1333, SEQ ID NO:1334, SEQ ID NO:1335, SEQ ID NO:1336, SEQ ID NO:1337, SEQ ID NO:1338, SEQ ID NO:1339, SEQ ID NO:1340, SEQ ID NO:1341, SEQ ID NO:1342, SEQ ID NO:1343, SEQ ID NO:1344, SEQ ID NO:1345, SEQ ID NO:1346, SEQ ID NO:1347, SEQ ID NO:1348, SEQ ID NO:1349, SEQ ID NO:1350, SEQ ID NO:1351, SEQ ID NO:1352, SEQ ID NO:1353, SEQ ID NO:1354, SEQ ID NO:1355, SEQ ID NO:1356, SEQ ID NO:1357, SEQ ID NO:1358, SEQ ID NO:1359, SEQ ID NO:1360, SEQ ID NO:1361, SEQ ID NO:1362, SEQ ID NO:1363, SEQ ID NO:1364, SEQ ID NO:1365, SEQ ID NO:1366, SEQ ID NO:1367, SEQ ID NO:1368, SEQ ID NO:1369, SEQ ID NO:1370, SEQ ID NO:1371, SEQ ID NO:1372, SEQ ID NO:1373, SEQ ID NO:1374, SEQ ID NO:1375, SEQ ID NO:1376, SEQ ID NO:1377, SEQ ID NO:1378, SEQ ID NO:1379, SEQ ID NO:1380, SEQ ID NO:1381, SEQ ID NO:1382, SEQ ID NO:1383, SEQ ID NO:1384, SEQ ID NO:1385, SEQ ID NO:1386, SEQ ID NO:1387, SEQ ID NO:1388, SEQ ID NO:1389, SEQ ID NO:1390, SEQ ID NO:1391, SEQ ID NO:1392, SEQ ID NO:1393, SEQ ID NO:1394, SEQ ID NO:1395, SEQ ID NO:1396, SEQ ID NO:1397, SEQ ID NO:1398, SEQ ID NO:1399, SEQ ID NO:1400, SEQ ID NO:1401, SEQ ID NO:1402, SEQ ID NO:1403, SEQ ID NO:1404, SEQ ID NO:1405, SEQ ID NO:1406, SEQ ID NO:1407, SEQ ID NO:1408, SEQ ID NO:1409, SEQ ID NO:1410, SEQ ID NO:1411, SEQ ID NO:1412, SEQ ID NO:1413, SEQ ID NO:1414, SEQ ID NO:1415, SEQ ID NO:1416, SEQ ID NO:1417, SEQ ID NO:1418, SEQ ID NO:1419, SEQ ID NO:1420, SEQ ID NO:1421, SEQ ID NO:1422, SEQ ID NO:1423, SEQ ID NO:1424, SEQ ID NO:1425, SEQ ID NO:1426, SEQ ID NO:1427, SEQ ID NO:1428, SEQ ID

NO:1429, SEQ ID NO:1430, SEQ ID NO:1431, SEQ ID NO:1432, SEQ ID NO:1433, SEQ ID NO:1434, SEQ ID NO:1435, SEQ ID NO:1436, SEQ ID NO:1437, SEQ ID NO:1438, SEQ ID NO:1439, SEQ ID NO:1440, SEQ ID NO:1441, SEQ ID NO:1442, SEQ ID NO:1443, SEQ ID NO:1444, SEQ ID NO:1445, SEQ ID NO:1446, SEQ ID NO:1447, SEQ ID NO:1448, SEQ ID NO:1449, SEQ ID NO:1450, SEQ ID NO:1451, SEQ ID NO:1452, SEQ ID NO:1453, SEQ ID NO:1454, SEQ ID NO:1455, SEQ ID NO:1456, SEQ ID NO:1457, SEQ ID NO:1458, SEQ ID NO:1459, SEQ ID NO:1460, SEQ ID NO:1461, SEQ ID NO:1462, SEQ ID NO:1463, SEQ ID NO:1464, SEQ ID NO:1465, SEQ ID NO:1466, SEQ ID NO:1467, SEQ ID NO:1468, SEQ ID NO:1469, SEQ ID NO:1470, SEQ ID NO:1471, SEQ ID NO:1472, SEQ ID NO:1473, SEQ ID NO:1474, SEQ ID NO:1475, SEQ ID NO:1476, SEQ ID NO:1477, SEQ ID NO:1478, SEQ ID NO:1479, SEQ ID NO:1480, SEQ ID NO:1481, SEQ ID NO:1482, SEQ ID NO:1483, SEQ ID NO:1484, SEQ ID NO:1485, SEQ ID NO:1486, SEQ ID NO:1487, SEQ ID NO:1488, SEQ ID NO:1489, SEQ ID NO:1490, SEQ ID NO:1491, SEQ ID NO:1492, SEQ ID NO:1493, SEQ ID NO:1494, SEQ ID NO:1495, SEQ ID NO:1496, SEQ ID NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, and SEQ ID NO:1500; or a complement of said sequence.

3. An isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ

ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217,

SEQ ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEQ ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID NO:258, SEQ ID NO:259, SEQ ID NO:260, SEQ ID NO:261, SEQ ID NO:262, SEQ ID NO:263, SEQ ID NO:264, SEQ ID NO:265, SEQ ID NO:266, SEQ ID NO:267, SEQ ID NO:268, SEQ ID NO:269, SEQ ID NO:270, SEQ ID NO:271, SEQ ID NO:272, SEQ ID NO:273, SEQ ID NO:274, SEQ ID NO:275, SEQ ID NO:276, SEQ ID NO:277, SEQ ID NO:278, SEQ ID NO:279, SEQ ID NO:280, SEQ ID NO:281, SEQ ID NO:282, SEQ ID NO:283, SEQ ID NO:284, SEQ ID NO:285, SEQ ID NO:286, SEQ ID NO:287, SEQ ID NO:288, SEQ ID NO:289, SEQ ID NO:290, SEQ ID NO:291, SEQ ID NO:292, SEQ ID NO:293, SEQ ID NO:294, SEQ ID NO:295, SEQ ID NO:296, SEQ ID NO:297, SEQ ID NO:298, SEQ ID NO:299, SEQ ID NO:300, SEQ ID NO:301, SEQ ID NO:302, SEQ ID NO:303, SEQ ID NO:304, SEQ ID NO:305, SEQ ID NO:306, SEQ ID NO:307, SEQ ID NO:308, SEQ ID NO:309, SEQ ID NO:310, SEQ ID NO:311, SEQ ID NO:312, SEQ ID NO:313, SEQ ID NO:314, SEQ ID NO:315, SEQ ID NO:316, SEQ ID NO:317, SEQ ID NO:318, SEQ ID NO:319, SEQ ID NO:320, SEQ ID NO:321, SEQ ID NO:322, SEQ ID NO:323, SEQ ID NO:324, SEQ ID NO:325, SEQ ID NO:326, SEQ ID NO:327, SEQ ID NO:328, SEQ ID NO:329, SEQ ID NO:330, SEQ ID NO:331, SEQ ID NO:332, SEQ ID NO:333, SEQ ID NO:334, SEQ ID NO:335, SEQ ID NO:336, SEQ ID NO:337, SEQ ID NO:338, SEQ ID NO:339, SEQ ID NO:340, SEQ ID NO:341, SEQ ID NO:342, SEQ ID NO:343, SEQ ID NO:344, SEQ ID NO:345, SEQ ID NO:346, SEQ ID NO:347, SEQ ID NO:348, SEQ ID NO:349, SEQ ID NO:350, SEQ ID NO:351, SEQ ID NO:352, SEQ ID NO:353, SEQ ID NO:354, SEQ ID NO:355, SEQ ID NO:356, SEQ ID NO:357, SEQ ID NO:358, SEQ ID NO:359, SEQ ID NO:360, SEQ ID NO:361, SEQ ID NO:362, SEQ ID NO:363, SEQ ID NO:364, SEQ ID NO:365, SEQ ID NO:366, SEQ ID NO:367, SEQ ID NO:368, SEQ ID NO:369, SEQ ID NO:370,

SEQ ID NO:371, SEQ ID NO:372, SEQ ID NO:373, SEQ ID NO:374, SEQ ID NO:375, SEQ ID NO:376, SEQ ID NO:377, SEQ ID NO:378, SEQ ID NO:379, SEQ ID NO:380, SEQ ID NO:381, SEQ ID NO:382, SEQ ID NO:383, SEQ ID NO:384, SEQ ID NO:385, SEQ ID NO:386, SEQ ID NO:387, SEQ ID NO:388, SEQ ID NO:389, SEQ ID NO:390, SEQ ID NO:391, SEQ ID NO:392, SEQ ID NO:393, SEQ ID NO:394, SEQ ID NO:395, SEQ ID NO:396, SEQ ID NO:397, SEQ ID NO:398, SEQ ID NO:399, SEQ ID NO:400, SEQ ID NO:401, SEQ ID NO:402, SEQ ID NO:403, SEQ ID NO:404, SEQ ID NO:405, SEQ ID NO:406, SEQ ID NO:407, SEQ ID NO:408, SEQ ID NO:409, SEQ ID NO:410, SEQ ID NO:411, SEQ ID NO:412, SEQ ID NO:413, SEQ ID NO:414, SEQ ID NO:415, SEQ ID NO:416, SEQ ID NO:417, SEQ ID NO:418, SEQ ID NO:419, SEQ ID NO:420, SEQ ID NO:421, SEQ ID NO:422, SEQ ID NO:423, SEQ ID NO:424, SEQ ID NO:425, SEQ ID NO:426, SEQ ID NO:427, SEQ ID NO:428, SEQ ID NO:429, SEQ ID NO:430, SEQ ID NO:431, SEQ ID NO:432, SEQ ID NO:433, SEQ ID NO:434, SEQ ID NO:435, SEQ ID NO:436, SEQ ID NO:437, SEQ ID NO:438, SEQ ID NO:439, SEQ ID NO:440, SEQ ID NO:441, SEQ ID NO:442, SEQ ID NO:443, SEQ ID NO:444, SEQ ID NO:445, SEQ ID NO:446, SEQ ID NO:447, SEQ ID NO:448, SEQ ID NO:449, SEQ ID NO:450, SEQ ID NO:451, SEQ ID NO:452, SEQ ID NO:453, SEQ ID NO:454, SEQ ID NO:455, SEQ ID NO:456, SEQ ID NO:457, SEQ ID NO:458, SEQ ID NO:459, SEQ ID NO:460, SEQ ID NO:461, SEQ ID NO:462, SEQ ID NO:463, SEQ ID NO:464, SEQ ID NO:465, SEQ ID NO:466, SEQ ID NO:467, SEQ ID NO:468, SEQ ID NO:469, SEQ ID NO:470, SEQ ID NO:471, SEQ ID NO:472, SEQ ID NO:473, SEQ ID NO:474, SEQ ID NO:475, SEQ ID NO:476, SEQ ID NO:477, SEQ ID NO:478, SEQ ID NO:479, SEQ ID NO:480, SEQ ID NO:481, SEQ ID NO:482, SEQ ID NO:483, SEQ ID NO:484, SEQ ID NO:485, SEQ ID NO:486, SEQ ID NO:487, SEQ ID NO:488, SEQ ID NO:489, SEQ ID NO:490, SEQ ID NO:491, SEQ ID NO:492, SEQ ID NO:493, SEQ ID NO:494, SEQ ID NO:495, SEQ ID NO:496, SEQ ID NO:497, SEQ ID NO:498, SEQ ID NO:499, SEQ ID NO:500, SEQ ID NO:501, SEQ ID NO:502, SEQ ID NO:503, SEQ ID NO:504, SEQ ID NO:505, SEQ ID NO:506, SEQ ID NO:507, SEQ ID NO:508, SEQ ID NO:509, SEQ ID NO:510, SEQ ID NO:511, SEQ ID NO:512, SEQ ID NO:513, SEQ ID NO:514, SEQ ID NO:515, SEQ ID NO:516, SEQ ID NO:517, SEQ ID NO:518, SEQ ID NO:519, SEQ ID NO:520, SEQ ID NO:521, SEQ ID NO:522, SEQ ID NO:523,

SEQ ID NO:524, SEQ ID NO:525, SEQ ID NO:526, SEQ ID NO:527, SEQ ID NO:528, SEQ ID NO:529, SEQ ID NO:530, SEQ ID NO:531, SEQ ID NO:532, SEQ ID NO:533, SEQ ID NO:534, SEQ ID NO:535, SEQ ID NO:536, SEQ ID NO:537, SEQ ID NO:538, SEQ ID NO:539, SEQ ID NO:540, SEQ ID NO:541, SEQ ID NO:542, SEQ ID NO:543, SEQ ID NO:544, SEQ ID NO:545, SEQ ID NO:546, SEQ ID NO:547, SEQ ID NO:548, SEQ ID NO:549, SEQ ID NO:550, SEQ ID NO:551, SEQ ID NO:552, SEQ ID NO:553, SEQ ID NO:554, SEQ ID NO:555, SEQ ID NO:556, SEQ ID NO:557, SEQ ID NO:558, SEQ ID NO:559, SEQ ID NO:560, SEQ ID NO:561, SEQ ID NO:562, SEQ ID NO:563, SEQ ID NO:564, SEQ ID NO:565, SEQ ID NO:566, SEQ ID NO:567, SEQ ID NO:568, SEQ ID NO:569, SEQ ID NO:570, SEQ ID NO:571, SEQ ID NO:572, SEQ ID NO:573, SEQ ID NO:574, SEQ ID NO:575, SEQ ID NO:576, SEQ ID NO:577, SEQ ID NO:578, SEQ ID NO:579, SEQ ID NO:580, SEQ ID NO:581, SEQ ID NO:582, SEQ ID NO:583, SEQ ID NO:584, SEQ ID NO:585, SEQ ID NO:586, SEQ ID NO:587, SEQ ID NO:588, SEQ ID NO:589, SEQ ID NO:590, SEQ ID NO:591, SEQ ID NO:592, SEQ ID NO:593, SEQ ID NO:594, SEQ ID NO:595, SEQ ID NO:596, SEQ ID NO:597, SEQ ID NO:598, SEQ ID NO:599, SEQ ID NO:600, SEQ ID NO:601, SEQ ID NO:602, SEQ ID NO:603, SEQ ID NO:604, SEQ ID NO:605, SEQ ID NO:606, SEQ ID NO:607, SEQ ID NO:608, SEQ ID NO:609, SEQ ID NO:610, SEQ ID NO:611, SEQ ID NO:612, SEQ ID NO:613, SEQ ID NO:614, SEQ ID NO:615, SEQ ID NO:616, SEQ ID NO:617, SEQ ID NO:618, SEQ ID NO:619, SEQ ID NO:620, SEQ ID NO:621, SEQ ID NO:622, SEQ ID NO:623, SEQ ID NO:624, SEQ ID NO:625, SEQ ID NO:626, SEQ ID NO:627, SEQ ID NO:628, SEQ ID NO:629, SEQ ID NO:630, SEQ ID NO:631, SEQ ID NO:632, SEQ ID NO:633, SEQ ID NO:634, SEQ ID NO:635, SEQ ID NO:636, SEQ ID NO:637, SEQ ID NO:638, SEQ ID NO:639, SEQ ID NO:640, SEQ ID NO:641, SEQ ID NO:642, SEQ ID NO:643, SEQ ID NO:644, SEQ ID NO:645, SEQ ID NO:646, SEQ ID NO:647, SEQ ID NO:648, SEQ ID NO:649, SEQ ID NO:650, SEQ ID NO:651, SEQ ID NO:652, SEQ ID NO:653, SEQ ID NO:654, SEQ ID NO:655, SEQ ID NO:656, SEQ ID NO:657, SEQ ID NO:658, SEQ ID NO:659, SEQ ID NO:660, SEQ ID NO:661, SEQ ID NO:662, SEQ ID NO:663, SEQ ID NO:664, SEQ ID NO:665, SEQ ID NO:666, SEQ ID NO:667, SEQ ID NO:668, SEQ ID NO:669, SEQ ID NO:670, SEQ ID NO:671, SEQ ID NO:672, SEQ ID NO:673, SEQ ID NO:674, SEQ ID NO:675, SEQ ID NO:676,

SEQ ID NO:677, SEQ ID NO:678, SEQ ID NO:679, SEQ ID NO:680, SEQ ID NO:681, SEQ ID NO:682, SEQ ID NO:683, SEQ ID NO:684, SEQ ID NO:685, SEQ ID NO:686, SEQ ID NO:687, SEQ ID NO:688, SEQ ID NO:689, SEQ ID NO:690, SEQ ID NO:691, SEQ ID NO:692, SEQ ID NO:693, SEQ ID NO:694, SEQ ID NO:695, SEQ ID NO:696, SEQ ID NO:697, SEQ ID NO:698, SEQ ID NO:699, SEQ ID NO:700, SEQ ID NO:701, SEQ ID NO:702, SEQ ID NO:703, SEQ ID NO:704, SEQ ID NO:705, SEQ ID NO:706, SEQ ID NO:707, SEQ ID NO:708, SEQ ID NO:709, SEQ ID NO:710, SEQ ID NO:711, SEQ ID NO:712, SEQ ID NO:713, SEQ ID NO:714, SEQ ID NO:715, SEQ ID NO:716, SEQ ID NO:717, SEQ ID NO:718, SEQ ID NO:719, SEQ ID NO:720, SEQ ID NO:721, SEQ ID NO:722, SEQ ID NO:723, SEQ ID NO:724, SEQ ID NO:725, SEQ ID NO:726, SEQ ID NO:727, SEQ ID NO:728, SEQ ID NO:729, SEQ ID NO:730, SEQ ID NO:731, SEQ ID NO:732, SEQ ID NO:733, SEQ ID NO:734, SEQ ID NO:735, SEQ ID NO:736, SEQ ID NO:737, SEQ ID NO:738, SEQ ID NO:739, SEQ ID NO:740, SEQ ID NO:741, SEQ ID NO:742, SEQ ID NO:743, SEQ ID NO:744, SEQ ID NO:745, SEQ ID NO:746, SEQ ID NO:747, SEQ ID NO:748, SEQ ID NO:749, SEQ ID NO:750, SEQ ID NO:751, SEQ ID NO:752, SEQ ID NO:753, SEQ ID NO:754, SEQ ID NO:755, SEQ ID NO:756, SEQ ID NO:757, SEQ ID NO:758, SEQ ID NO:759, SEQ ID NO:760, SEQ ID NO:761, SEQ ID NO:762, SEQ ID NO:763, SEQ ID NO:764, SEQ ID NO:765, SEQ ID NO:766, SEQ ID NO:767, SEQ ID NO:768, SEQ ID NO:769, SEQ ID NO:770, SEQ ID NO:771, SEQ ID NO:772, SEQ ID NO:773, SEQ ID NO:774, SEQ ID NO:775, SEQ ID NO:776, SEQ ID NO:777, SEQ ID NO:778, SEQ ID NO:779, SEQ ID NO:780, SEQ ID NO:781, SEQ ID NO:782, SEQ ID NO:783, SEQ ID NO:784, SEQ ID NO:785, SEQ ID NO:786, SEQ ID NO:787, SEQ ID NO:788, SEQ ID NO:789, SEQ ID NO:790, SEQ ID NO:791, SEQ ID NO:792, SEQ ID NO:793, SEQ ID NO:794, SEQ ID NO:795, SEQ ID NO:796, SEQ ID NO:797, SEQ ID NO:798, SEQ ID NO:799, SEQ ID NO:800, SEQ ID NO:801, SEQ ID NO:802, SEQ ID NO:803, SEQ ID NO:804, SEQ ID NO:805, SEQ ID NO:806, SEQ ID NO:807, SEQ ID NO:808, SEQ ID NO:809, SEQ ID NO:810, SEQ ID NO:811, SEQ ID NO:812, SEQ ID NO:813, SEQ ID NO:814, SEQ ID NO:815, SEQ ID NO:816, SEQ ID NO:817, SEQ ID NO:818, SEQ ID NO:819, SEQ ID NO:820, SEQ ID NO:821, SEQ ID NO:822, SEQ ID NO:823, SEQ ID NO:824, SEQ ID NO:825, SEQ ID NO:826, SEQ ID NO:827, SEQ ID NO:828, SEQ ID NO:829,

SEQ ID NO:830, SEQ ID NO:831, SEQ ID NO:832, SEQ ID NO:833, SEQ ID NO:834, SEQ ID NO:835, SEQ ID NO:836, SEQ ID NO:837, SEQ ID NO:838, SEQ ID NO:839, SEQ ID NO:840, SEQ ID NO:841, SEQ ID NO:842, SEQ ID NO:843, SEQ ID NO:844, SEQ ID NO:845, SEQ ID NO:846, SEQ ID NO:847, SEQ ID NO:848, SEQ ID NO:849, SEQ ID NO:850, SEQ ID NO:851, SEQ ID NO:852, SEQ ID NO:853, SEQ ID NO:854, SEQ ID NO:855, SEQ ID NO:856, SEQ ID NO:857, SEQ ID NO:858, SEQ ID NO:859, SEQ ID NO:860, SEQ ID NO:861, SEQ ID NO:862, SEQ ID NO:863, SEQ ID NO:864, SEQ ID NO:865, SEQ ID NO:866, SEQ ID NO:867, SEQ ID NO:868, SEQ ID NO:869, SEQ ID NO:870, SEQ ID NO:871, SEQ ID NO:872, SEQ ID NO:873, SEQ ID NO:874, SEQ ID NO:875, SEQ ID NO:876, SEQ ID NO:877, SEQ ID NO:878, SEQ ID NO:879, SEQ ID NO:880, SEQ ID NO:881, SEQ ID NO:882, SEQ ID NO:883, SEQ ID NO:884, SEQ ID NO:885, SEQ ID NO:886, SEQ ID NO:887, SEQ ID NO:888, SEQ ID NO:889, SEQ ID NO:890, SEQ ID NO:891, SEQ ID NO:892, SEQ ID NO:893, SEQ ID NO:894, SEQ ID NO:895, SEQ ID NO:896, SEQ ID NO:897, SEQ ID NO:898, SEQ ID NO:899, SEQ ID NO:900, SEQ ID NO:901, SEQ ID NO:902, SEQ ID NO:903, SEQ ID NO:904, SEQ ID NO:905, SEQ ID NO:906, SEQ ID NO:907, SEQ ID NO:908, SEQ ID NO:909, SEQ ID NO:910, SEQ ID NO:911, SEQ ID NO:912, SEQ ID NO:913, SEQ ID NO:914, SEQ ID NO:915, SEQ ID NO:916, SEQ ID NO:917, SEQ ID NO:918, SEQ ID NO:919, SEQ ID NO:920, SEQ ID NO:921, SEQ ID NO:922, SEQ ID NO:923, SEQ ID NO:924, SEQ ID NO:925, SEQ ID NO:926, SEQ ID NO:927, SEQ ID NO:928, SEQ ID NO:929, SEQ ID NO:930, SEQ ID NO:931, SEQ ID NO:932, SEQ ID NO:933, SEQ ID NO:934, SEQ ID NO:935, SEQ ID NO:936, SEQ ID NO:937, SEQ ID NO:938, SEQ ID NO:939, SEQ ID NO:940, SEQ ID NO:941, SEQ ID NO:942, SEQ ID NO:943, SEQ ID NO:944, SEQ ID NO:945, SEQ ID NO:946, SEQ ID NO:947, SEQ ID NO:948, SEQ ID NO:949, SEQ ID NO:950, SEQ ID NO:951, SEQ ID NO:952, SEQ ID NO:953, SEQ ID NO:954, SEQ ID NO:955, SEQ ID NO:956, SEQ ID NO:957, SEQ ID NO:958, SEQ ID NO:959, SEQ ID NO:960, SEQ ID NO:961, SEQ ID NO:962, SEQ ID NO:963, SEQ ID NO:964, SEQ ID NO:965, SEQ ID NO:966, SEQ ID NO:967, SEQ ID NO:968, SEQ ID NO:969, SEQ ID NO:970, SEQ ID NO:971, SEQ ID NO:972, SEQ ID NO:973, SEQ ID NO:974, SEQ ID NO:975, SEQ ID NO:976, SEQ ID NO:977, SEQ ID NO:978, SEQ ID NO:979, SEQ ID NO:980, SEQ ID NO:981, SEQ ID NO:982,

SEQ ID NO:983, SEQ ID NO:984, SEQ ID NO:985, SEQ ID NO:986, SEQ ID NO:987, SEQ ID NO:988, SEQ ID NO:989, SEQ ID NO:990, SEQ ID NO:991, SEQ ID NO:992, SEQ ID NO:993, SEQ ID NO:994, SEQ ID NO:995, SEQ ID NO:996, SEQ ID NO:997, SEQ ID NO:998, SEQ ID NO:999, SEQ ID NO:1000, SEQ ID NO:1001, SEQ ID NO:1002, SEQ ID NO:1003, SEQ ID NO:1004, SEQ ID NO:1005, SEQ ID NO:1006, SEQ ID NO:1007, SEQ ID NO:1008, SEQ ID NO:1009, SEQ ID NO:1010, SEQ ID NO:1011, SEQ ID NO:1012, SEQ ID NO:1013, SEQ ID NO:1014, SEQ ID NO:1015, SEQ ID NO:1016, SEQ ID NO:1017, SEQ ID NO:1018, SEQ ID NO:1019, SEQ ID NO:1020, SEQ ID NO:1021, SEQ ID NO:1022, SEQ ID NO:1023, SEQ ID NO:1024, SEQ ID NO:1025, SEQ ID NO:1026, SEQ ID NO:1027, SEQ ID NO:1028, SEQ ID NO:1029, SEQ ID NO:1030, SEQ ID NO:1031, SEQ ID NO:1032, SEQ ID NO:1033, SEQ ID NO:1034, SEQ ID NO:1035, SEQ ID NO:1036, SEQ ID NO:1037, SEQ ID NO:1038, SEQ ID NO:1039, SEQ ID NO:1040, SEQ ID NO:1041, SEQ ID NO:1042, SEQ ID NO:1043, SEQ ID NO:1044, SEQ ID NO:1045, SEQ ID NO:1046, SEQ ID NO:1047, SEQ ID NO:1048, SEQ ID NO:1049, SEQ ID NO:1050, SEQ ID NO:1051, SEQ ID NO:1052, SEQ ID NO:1053, SEQ ID NO:1054, SEQ ID NO:1055, SEQ ID NO:1056, SEQ ID NO:1057, SEQ ID NO:1058, SEQ ID NO:1059, SEQ ID NO:1060, SEQ ID NO:1061, SEQ ID NO:1062, SEQ ID NO:1063, SEQ ID NO:1064, SEQ ID NO:1065, SEQ ID NO:1066, SEQ ID NO:1067, SEQ ID NO:1068, SEQ ID NO:1069, SEQ ID NO:1070, SEQ ID NO:1071, SEQ ID NO:1072, SEQ ID NO:1073, SEQ ID NO:1074, SEQ ID NO:1075, SEQ ID NO:1076, SEQ ID NO:1077, SEQ ID NO:1078, SEQ ID NO:1079, SEQ ID NO:1080, SEQ ID NO:1081, SEQ ID NO:1082, SEQ ID NO:1083, SEQ ID NO:1084, SEQ ID NO:1085, SEQ ID NO:1086, SEQ ID NO:1087, SEQ ID NO:1088, SEQ ID NO:1089, SEQ ID NO:1090, SEQ ID NO:1091, SEQ ID NO:1092, SEQ ID NO:1093, SEQ ID NO:1094, SEQ ID NO:1095, SEQ ID NO:1096, SEQ ID NO:1097, SEQ ID NO:1098, SEQ ID NO:1099, SEQ ID NO:1100, SEQ ID NO:1101, SEQ ID NO:1102, SEQ ID NO:1103, SEQ ID NO:1104, SEQ ID NO:1105, SEQ ID NO:1106, SEQ ID NO:1107, SEQ ID NO:1108, SEQ ID NO:1109, SEQ ID NO:1110, SEQ ID NO:1111, SEQ ID NO:1112, SEQ ID NO:1113, SEQ ID NO:1114, SEQ ID NO:1115, SEQ ID NO:1116, SEQ ID NO:1117, SEQ ID NO:1118, SEQ ID NO:1119, SEQ ID NO:1120, SEQ ID

NO:1121, SEQ ID NO:1122, SEQ ID NO:1123, SEQ ID NO:1124, SEQ ID NO:1125, SEQ ID NO:1126, SEQ ID NO:1127, SEQ ID NO:1128, SEQ ID NO:1129, SEQ ID NO:1130, SEQ ID NO:1131, SEQ ID NO:1132, SEQ ID NO:1133, SEQ ID NO:1134, SEQ ID NO:1135, SEQ ID NO:1136, SEQ ID NO:1137, SEQ ID NO:1138, SEQ ID NO:1139, SEQ ID NO:1140, SEQ ID NO:1141, SEQ ID NO:1142, SEQ ID NO:1143, SEQ ID NO:1144, SEQ ID NO:1145, SEQ ID NO:1146, SEQ ID NO:1147, SEQ ID NO:1148, SEQ ID NO:1149, SEQ ID NO:1150, SEQ ID NO:1151, SEQ ID NO:1152, SEQ ID NO:1153, SEQ ID NO:1154, SEQ ID NO:1155, SEQ ID NO:1156, SEQ ID NO:1157, SEQ ID NO:1158, SEQ ID NO:1159, SEQ ID NO:1160, SEQ ID NO:1161, SEQ ID NO:1162, SEQ ID NO:1163, SEQ ID NO:1164, SEQ ID NO:1165, SEQ ID NO:1166, SEQ ID NO:1167, SEQ ID NO:1168, SEQ ID NO:1169, SEQ ID NO:1170, SEQ ID NO:1171, SEQ ID NO:1172, SEQ ID NO:1173, SEQ ID NO:1174, SEQ ID NO:1175, SEQ ID NO:1176, SEQ ID NO:1177, SEQ ID NO:1178, SEQ ID NO:1179, SEQ ID NO:1180, SEQ ID NO:1181, SEQ ID NO:1182, SEQ ID NO:1183, SEQ ID NO:1184, SEQ ID NO:1185, SEQ ID NO:1186, SEQ ID NO:1187, SEQ ID NO:1188, SEQ ID NO:1189, SEQ ID NO:1190, SEQ ID NO:1191, SEQ ID NO:1192, SEQ ID NO:1193, SEQ ID NO:1194, SEQ ID NO:1195, SEQ ID NO:1196, SEQ ID NO:1197, SEQ ID NO:1198, SEQ ID NO:1199, SEQ ID NO:1200, SEQ ID NO:1201, SEQ ID NO:1202, SEQ ID NO:1203, SEQ ID NO:1204, SEQ ID NO:1205, SEQ ID NO:1206, SEQ ID NO:1207, SEQ ID NO:1208, SEQ ID NO:1209, SEQ ID NO:1210, SEQ ID NO:1211, SEQ ID NO:1212, SEQ ID NO:1213, SEQ ID NO:1214, SEQ ID NO:1215, SEQ ID NO:1216, SEQ ID NO:1217, SEQ ID NO:1218, SEQ ID NO:1219, SEQ ID NO:1220, SEQ ID NO:1221, SEQ ID NO:1222, SEQ ID NO:1223, SEQ ID NO:1224, SEQ ID NO:1225, SEQ ID NO:1226, SEQ ID NO:1227, SEQ ID NO:1228, SEQ ID NO:1229, SEQ ID NO:1230, SEQ ID NO:1231, SEQ ID NO:1232, SEQ ID NO:1233, SEQ ID NO:1234, SEQ ID NO:1235, SEQ ID NO:1236, SEQ ID NO:1237, SEQ ID NO:1238, SEQ ID NO:1239, SEQ ID NO:1240, SEQ ID NO:1241, SEQ ID NO:1242, SEQ ID NO:1243, SEQ ID NO:1244, SEQ ID NO:1245, SEQ ID NO:1246, SEQ ID NO:1247, SEQ ID NO:1248, SEQ ID NO:1249, SEQ ID NO:1250, SEQ ID NO:1251, SEQ ID NO:1252, SEQ ID NO:1253, SEQ ID NO:1254, SEQ ID NO:1255, SEQ ID NO:1256, SEQ ID

NO:1393, SEQ ID NO:1394, SEQ ID NO:1395, SEQ ID NO:1396, SEQ ID NO:1397, SEQ ID NO:1398, SEQ ID NO:1399, SEQ ID NO:1400, SEQ ID NO:1401, SEQ ID NO:1402, SEQ ID NO:1403, SEQ ID NO:1404, SEQ ID NO:1405, SEQ ID NO:1406, SEQ ID NO:1407, SEQ ID NO:1408, SEQ ID NO:1409, SEQ ID NO:1410, SEQ ID NO:1411, SEQ ID NO:1412, SEQ ID NO:1413, SEQ ID NO:1414, SEQ ID NO:1415, SEQ ID NO:1416, SEQ ID NO:1417, SEQ ID NO:1418, SEQ ID NO:1419, SEQ ID NO:1420, SEQ ID NO:1421, SEQ ID NO:1422, SEQ ID NO:1423, SEQ ID NO:1424, SEQ ID NO:1425, SEQ ID NO:1426, SEQ ID NO:1427, SEQ ID NO:1428, SEQ ID NO:1429, SEQ ID NO:1430, SEQ ID NO:1431, SEQ ID NO:1432, SEQ ID NO:1433, SEQ ID NO:1434, SEQ ID NO:1435, SEQ ID NO:1436, SEQ ID NO:1437, SEQ ID NO:1438, SEQ ID NO:1439, SEQ ID NO:1440, SEQ ID NO:1441, SEQ ID NO:1442, SEQ ID NO:1443, SEQ ID NO:1444, SEQ ID NO:1445, SEQ ID NO:1446, SEQ ID NO:1447, SEQ ID NO:1448, SEQ ID NO:1449, SEQ ID NO:1450, SEQ ID NO:1451, SEQ ID NO:1452, SEQ ID NO:1453, SEQ ID NO:1454, SEQ ID NO:1455, SEQ ID NO:1456, SEQ ID NO:1457, SEQ ID NO:1458, SEQ ID NO:1459, SEQ ID NO:1460, SEQ ID NO:1461, SEQ ID NO:1462, SEQ ID NO:1463, SEQ ID NO:1464, SEQ ID NO:1465, SEQ ID NO:1466, SEQ ID NO:1467, SEQ ID NO:1468, SEQ ID NO:1469, SEQ ID NO:1470, SEQ ID NO:1471, SEQ ID NO:1472, SEQ ID NO:1473, SEQ ID NO:1474, SEQ ID NO:1475, SEQ ID NO:1476, SEQ ID NO:1477, SEQ ID NO:1478, SEQ ID NO:1479, SEQ ID NO:1480, SEQ ID NO:1481, SEQ ID NO:1482, SEQ ID NO:1483, SEQ ID NO:1484, SEQ ID NO:1485, SEQ ID NO:1486, SEQ ID NO:1487, SEQ ID NO:1488, SEQ ID NO:1489, SEQ ID NO:1490, SEQ ID NO:1491, SEQ ID NO:1492, SEQ ID NO:1493, SEQ ID NO:1494, SEQ ID NO:1495, SEQ ID NO:1496, SEQ ID NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, and SEQ ID NO:1500;

or a complement of said sequence.

4. An isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ

ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID

NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217, SEQ ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEQ ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID NO:258, SEQ ID NO:259, SEQ ID NO:260, SEQ ID NO:261, SEQ ID NO:262, SEQ ID NO:263, SEQ ID NO:264, SEQ ID NO:265, SEQ ID NO:266, SEQ ID NO:267, SEQ ID NO:268, SEQ ID NO:269, SEQ ID NO:270, SEQ ID NO:271, SEQ ID NO:272, SEQ ID NO:273, SEQ ID NO:274, SEQ ID NO:275, SEQ ID NO:276, SEQ ID NO:277, SEQ ID NO:278, SEQ ID NO:279, SEQ ID NO:280, SEQ ID NO:281, SEQ ID NO:282, SEQ ID NO:283, SEQ ID NO:284, SEQ ID NO:285, SEQ ID NO:286, SEQ ID NO:287, SEQ ID NO:288, SEQ ID NO:289, SEQ ID NO:290, SEQ ID NO:291, SEQ ID NO:292, SEQ ID NO:293, SEQ ID NO:294, SEQ ID NO:295, SEQ ID NO:296, SEQ ID NO:297, SEQ ID NO:298, SEQ ID NO:299, SEQ ID NO:300, SEQ ID NO:301, SEQ ID NO:302, SEQ ID NO:303, SEQ ID NO:304, SEQ ID NO:305, SEQ ID NO:306, SEQ ID NO:307, SEQ ID NO:308, SEQ ID NO:309, SEQ ID NO:310, SEQ ID NO:311, SEQ ID NO:312, SEQ ID NO:313, SEQ ID NO:314, SEQ ID NO:315, SEQ ID NO:316, SEQ ID NO:317, SEQ ID NO:318, SEQ ID NO:319, SEQ ID NO:320, SEQ ID NO:321, SEQ ID NO:322, SEQ ID NO:323, SEQ ID NO:324, SEQ ID NO:325, SEQ ID NO:326, SEQ ID NO:327, SEQ ID NO:328, SEQ ID NO:329, SEQ ID

NO:330, SEQ ID NO:331, SEQ ID NO:332, SEQ ID NO:333, SEQ ID NO:334, SEQ ID NO:335, SEQ ID NO:336, SEQ ID NO:337, SEQ ID NO:338, SEQ ID NO:339, SEQ ID NO:340, SEQ ID NO:341, SEQ ID NO:342, SEQ ID NO:343, SEQ ID NO:344, SEQ ID NO:345, SEQ ID NO:346, SEQ ID NO:347, SEQ ID NO:348, SEQ ID NO:349, SEQ ID NO:350, SEQ ID NO:351, SEQ ID NO:352, SEQ ID NO:353, SEQ ID NO:354, SEQ ID NO:355, SEQ ID NO:356, SEQ ID NO:357, SEQ ID NO:358, SEQ ID NO:359, SEQ ID NO:360, SEQ ID NO:361, SEQ ID NO:362, SEQ ID NO:363, SEQ ID NO:364, SEQ ID NO:365, SEQ ID NO:366, SEQ ID NO:367, SEQ ID NO:368, SEQ ID NO:369, SEQ ID NO:370, SEQ ID NO:371, SEQ ID NO:372, SEQ ID NO:373, SEQ ID NO:374, SEQ ID NO:375, SEQ ID NO:376, SEQ ID NO:377, SEQ ID NO:378, SEQ ID NO:379, SEQ ID NO:380, SEQ ID NO:381, SEQ ID NO:382, SEQ ID NO:383, SEQ ID NO:384, SEQ ID NO:385, SEQ ID NO:386, SEQ ID NO:387, SEQ ID NO:388, SEQ ID NO:389, SEQ ID NO:390, SEQ ID NO:391, SEQ ID NO:392, SEQ ID NO:393, SEQ ID NO:394, SEQ ID NO:395, SEQ ID NO:396, SEQ ID NO:397, SEQ ID NO:398, SEQ ID NO:399, SEQ ID NO:400, SEQ ID NO:401, SEQ ID NO:402, SEQ ID NO:403, SEQ ID NO:404, SEQ ID NO:405, SEQ ID NO:406, SEQ ID NO:407, SEQ ID NO:408, SEQ ID NO:409, SEQ ID NO:410, SEQ ID NO:411, SEQ ID NO:412, SEQ ID NO:413, SEQ ID NO:414, SEQ ID NO:415, SEQ ID NO:416, SEQ ID NO:417, SEQ ID NO:418, SEQ ID NO:419, SEQ ID NO:420, SEQ ID NO:421, SEQ ID NO:422, SEQ ID NO:423, SEQ ID NO:424, SEQ ID NO:425, SEQ ID NO:426, SEQ ID NO:427, SEQ ID NO:428, SEQ ID NO:429, SEQ ID NO:430, SEQ ID NO:431, SEQ ID NO:432, SEQ ID NO:433, SEQ ID NO:434, SEQ ID NO:435, SEQ ID NO:436, SEQ ID NO:437, SEQ ID NO:438, SEQ ID NO:439, SEQ ID NO:440, SEQ ID NO:441, SEQ ID NO:442, SEQ ID NO:443, SEQ ID NO:444, SEQ ID NO:445, SEQ ID NO:446, SEQ ID NO:447, SEQ ID NO:448, SEQ ID NO:449, SEQ ID NO:450, SEQ ID NO:451, SEQ ID NO:452, SEQ ID NO:453, SEQ ID NO:454, SEQ ID NO:455, SEQ ID NO:456, SEQ ID NO:457, SEQ ID NO:458, SEQ ID NO:459, SEQ ID NO:460, SEQ ID NO:461, SEQ ID NO:462, SEQ ID NO:463, SEQ ID NO:464, SEQ ID NO:465, SEQ ID NO:466, SEQ ID NO:467, SEQ ID NO:468, SEQ ID NO:469, SEQ ID NO:470, SEQ ID NO:471, SEQ ID NO:472, SEQ ID NO:473, SEQ ID NO:474, SEQ ID NO:475, SEQ ID NO:476, SEQ ID NO:477, SEQ ID NO:478, SEQ ID NO:479, SEQ ID NO:480, SEQ ID NO:481, SEQ ID NO:482, SEQ ID

NO:483, SEQ ID NO:484, SEQ ID NO:485, SEQ ID NO:486, SEQ ID NO:487, SEQ ID NO:488, SEQ ID NO:489, SEQ ID NO:490, SEQ ID NO:491, SEQ ID NO:492, SEQ ID NO:493, SEQ ID NO:494, SEQ ID NO:495, SEQ ID NO:496, SEQ ID NO:497, SEQ ID NO:498, SEQ ID NO:499, SEQ ID NO:500, SEQ ID NO:501, SEQ ID NO:502, SEQ ID NO:503, SEQ ID NO:504, SEQ ID NO:505, SEQ ID NO:506, SEQ ID NO:507, SEQ ID NO:508, SEQ ID NO:509, SEQ ID NO:510, SEQ ID NO:511, SEQ ID NO:512, SEQ ID NO:513, SEQ ID NO:514, SEQ ID NO:515, SEQ ID NO:516, SEQ ID NO:517, SEQ ID NO:518, SEQ ID NO:519, SEQ ID NO:520, SEQ ID NO:521, SEQ ID NO:522, SEQ ID NO:523, SEQ ID NO:524, SEQ ID NO:525, SEQ ID NO:526, SEQ ID NO:527, SEQ ID NO:528, SEQ ID NO:529, SEQ ID NO:530, SEQ ID NO:531, SEQ ID NO:532, SEQ ID NO:533, SEQ ID NO:534, SEQ ID NO:535, SEQ ID NO:536, SEQ ID NO:537, SEQ ID NO:538, SEQ ID NO:539, SEQ ID NO:540, SEQ ID NO:541, SEQ ID NO:542, SEQ ID NO:543, SEQ ID NO:544, SEQ ID NO:545, SEQ ID NO:546, SEQ ID NO:547, SEQ ID NO:548, SEQ ID NO:549, SEQ ID NO:550, SEQ ID NO:551, SEQ ID NO:552, SEQ ID NO:553, SEQ ID NO:554, SEQ ID NO:555, SEQ ID NO:556, SEQ ID NO:557, SEQ ID NO:558, SEQ ID NO:559, SEQ ID NO:560, SEQ ID NO:561, SEQ ID NO:562, SEQ ID NO:563, SEQ ID NO:564, SEQ ID NO:565, SEQ ID NO:566, SEQ ID NO:567, SEQ ID NO:568, SEQ ID NO:569, SEQ ID NO:570, SEQ ID NO:571, SEQ ID NO:572, SEQ ID NO:573, SEQ ID NO:574, SEQ ID NO:575, SEQ ID NO:576, SEQ ID NO:577, SEQ ID NO:578, SEQ ID NO:579, SEQ ID NO:580, SEQ ID NO:581, SEQ ID NO:582, SEQ ID NO:583, SEQ ID NO:584, SEQ ID NO:585, SEQ ID NO:586, SEQ ID NO:587, SEQ ID NO:588, SEQ ID NO:589, SEQ ID NO:590, SEQ ID NO:591, SEQ ID NO:592, SEQ ID NO:593, SEQ ID NO:594, SEQ ID NO:595, SEQ ID NO:596, SEQ ID NO:597, SEQ ID NO:598, SEQ ID NO:599, SEQ ID NO:600, SEQ ID NO:601, SEQ ID NO:602, SEQ ID NO:603, SEQ ID NO:604, SEQ ID NO:605, SEQ ID NO:606, SEQ ID NO:607, SEQ ID NO:608, SEQ ID NO:609, SEQ ID NO:610, SEQ ID NO:611, SEQ ID NO:612, SEQ ID NO:613, SEQ ID NO:614, SEQ ID NO:615, SEQ ID NO:616, SEQ ID NO:617, SEQ ID NO:618, SEQ ID NO:619, SEQ ID NO:620, SEQ ID NO:621, SEQ ID NO:622, SEQ ID NO:623, SEQ ID NO:624, SEQ ID NO:625, SEQ ID NO:626, SEQ ID NO:627, SEQ ID NO:628, SEQ ID NO:629, SEQ ID NO:630, SEQ ID NO:631, SEQ ID NO:632, SEQ ID NO:633, SEQ ID NO:634, SEQ ID NO:635, SEQ ID

NO:636, SEQ ID NO:637, SEQ ID NO:638, SEQ ID NO:639, SEQ ID NO:640, SEQ ID NO:641, SEQ ID NO:642, SEQ ID NO:643, SEQ ID NO:644, SEQ ID NO:645, SEQ ID NO:646, SEQ ID NO:647, SEQ ID NO:648, SEQ ID NO:649, SEQ ID NO:650, SEQ ID NO:651, SEQ ID NO:652, SEQ ID NO:653, SEQ ID NO:654, SEQ ID NO:655, SEQ ID NO:656, SEQ ID NO:657, SEQ ID NO:658, SEQ ID NO:659, SEQ ID NO:660, SEQ ID NO:661, SEQ ID NO:662, SEQ ID NO:663, SEQ ID NO:664, SEQ ID NO:665, SEQ ID NO:666, SEQ ID NO:667, SEQ ID NO:668, SEQ ID NO:669, SEQ ID NO:670, SEQ ID NO:671, SEQ ID NO:672, SEQ ID NO:673, SEQ ID NO:674, SEQ ID NO:675, SEQ ID NO:676, SEQ ID NO:677, SEQ ID NO:678, SEQ ID NO:679, SEQ ID NO:680, SEQ ID NO:681, SEQ ID NO:682, SEQ ID NO:683, SEQ ID NO:684, SEQ ID NO:685, SEQ ID NO:686, SEQ ID NO:687, SEQ ID NO:688, SEQ ID NO:689, SEQ ID NO:690, SEQ ID NO:691, SEQ ID NO:692, SEQ ID NO:693, SEQ ID NO:694, SEQ ID NO:695, SEQ ID NO:696, SEQ ID NO:697, SEQ ID NO:698, SEQ ID NO:699, SEQ ID NO:700, SEQ ID NO:701, SEQ ID NO:702, SEQ ID NO:703, SEQ ID NO:704, SEQ ID NO:705, SEQ ID NO:706, SEQ ID NO:707, SEQ ID NO:708, SEQ ID NO:709, SEQ ID NO:710, SEQ ID NO:711, SEQ ID NO:712, SEQ ID NO:713, SEQ ID NO:714, SEQ ID NO:715, SEQ ID NO:716, SEQ ID NO:717, SEQ ID NO:718, SEQ ID NO:719, SEQ ID NO:720, SEQ ID NO:721, SEQ ID NO:722, SEQ ID NO:723, SEQ ID NO:724, SEQ ID NO:725, SEQ ID NO:726, SEQ ID NO:727, SEQ ID NO:728, SEQ ID NO:729, SEQ ID NO:730, SEQ ID NO:731, SEQ ID NO:732, SEQ ID NO:733, SEQ ID NO:734, SEQ ID NO:735, SEQ ID NO:736, SEQ ID NO:737, SEQ ID NO:738, SEQ ID NO:739, SEQ ID NO:740, SEQ ID NO:741, SEQ ID NO:742, SEQ ID NO:743, SEQ ID NO:744, SEQ ID NO:745, SEQ ID NO:746, SEQ ID NO:747, SEQ ID NO:748, SEQ ID NO:749, SEQ ID NO:750, SEQ ID NO:751, SEQ ID NO:752, SEQ ID NO:753, SEQ ID NO:754, SEQ ID NO:755, SEQ ID NO:756, SEQ ID NO:757, SEQ ID NO:758, SEQ ID NO:759, SEQ ID NO:760, SEQ ID NO:761, SEQ ID NO:762, SEQ ID NO:763, SEQ ID NO:764, SEQ ID NO:765, SEQ ID NO:766, SEQ ID NO:767, SEQ ID NO:768, SEQ ID NO:769, SEQ ID NO:770, SEQ ID NO:771, SEQ ID NO:772, SEQ ID NO:773, SEQ ID NO:774, SEQ ID NO:775, SEQ ID NO:776, SEQ ID NO:777, SEQ ID NO:778, SEQ ID NO:779, SEQ ID NO:780, SEQ ID NO:781, SEQ ID NO:782, SEQ ID NO:783, SEQ ID NO:784, SEQ ID NO:785, SEQ ID NO:786, SEQ ID NO:787, SEQ ID NO:788, SEQ ID

NO:789, SEQ ID NO:790, SEQ ID NO:791, SEQ ID NO:792, SEQ ID NO:793, SEQ ID NO:794, SEQ ID NO:795, SEQ ID NO:796, SEQ ID NO:797, SEQ ID NO:798, SEQ ID NO:799, SEQ ID NO:800, SEQ ID NO:801, SEQ ID NO:802, SEQ ID NO:803, SEQ ID NO:804, SEQ ID NO:805, SEQ ID NO:806, SEQ ID NO:807, SEQ ID NO:808, SEQ ID NO:809, SEQ ID NO:810, SEQ ID NO:811, SEQ ID NO:812, SEQ ID NO:813, SEQ ID NO:814, SEQ ID NO:815, SEQ ID NO:816, SEQ ID NO:817, SEQ ID NO:818, SEQ ID NO:819, SEQ ID NO:820, SEQ ID NO:821, SEQ ID NO:822, SEQ ID NO:823, SEQ ID NO:824, SEQ ID NO:825, SEQ ID NO:826, SEQ ID NO:827, SEQ ID NO:828, SEQ ID NO:829, SEQ ID NO:830, SEQ ID NO:831, SEQ ID NO:832, SEQ ID NO:833, SEQ ID NO:834, SEQ ID NO:835, SEQ ID NO:836, SEQ ID NO:837, SEQ ID NO:838, SEQ ID NO:839, SEQ ID NO:840, SEQ ID NO:841, SEQ ID NO:842, SEQ ID NO:843, SEQ ID NO:844, SEQ ID NO:845, SEQ ID NO:846, SEQ ID NO:847, SEQ ID NO:848, SEQ ID NO:849, SEQ ID NO:850, SEQ ID NO:851, SEQ ID NO:852, SEQ ID NO:853, SEQ ID NO:854, SEQ ID NO:855, SEQ ID NO:856, SEQ ID NO:857, SEQ ID NO:858, SEQ ID NO:859, SEQ ID NO:860, SEQ ID NO:861, SEQ ID NO:862, SEQ ID NO:863, SEQ ID NO:864, SEQ ID NO:865, SEQ ID NO:866, SEQ ID NO:867, SEQ ID NO:868, SEQ ID NO:869, SEQ ID NO:870, SEQ ID NO:871, SEQ ID NO:872, SEQ ID NO:873, SEQ ID NO:874, SEQ ID NO:875, SEQ ID NO:876, SEQ ID NO:877, SEQ ID NO:878, SEQ ID NO:879, SEQ ID NO:880, SEQ ID NO:881, SEQ ID NO:882, SEQ ID NO:883, SEQ ID NO:884, SEQ ID NO:885, SEQ ID NO:886, SEQ ID NO:887, SEQ ID NO:888, SEQ ID NO:889, SEQ ID NO:890, SEQ ID NO:891, SEQ ID NO:892, SEQ ID NO:893, SEQ ID NO:894, SEQ ID NO:895, SEQ ID NO:896, SEQ ID NO:897, SEQ ID NO:898, SEQ ID NO:899, SEQ ID NO:900, SEQ ID NO:901, SEQ ID NO:902, SEQ ID NO:903, SEQ ID NO:904, SEQ ID NO:905, SEQ ID NO:906, SEQ ID NO:907, SEQ ID NO:908, SEQ ID NO:909, SEQ ID NO:910, SEQ ID NO:911, SEQ ID NO:912, SEQ ID NO:913, SEQ ID NO:914, SEQ ID NO:915, SEQ ID NO:916, SEQ ID NO:917, SEQ ID NO:918, SEQ ID NO:919, SEQ ID NO:920, SEQ ID NO:921, SEQ ID NO:922, SEQ ID NO:923, SEQ ID NO:924, SEQ ID NO:925, SEQ ID NO:926, SEQ ID NO:927, SEQ ID NO:928, SEQ ID NO:929, SEQ ID NO:930, SEQ ID NO:931, SEQ ID NO:932, SEQ ID NO:933, SEQ ID NO:934, SEQ ID NO:935, SEQ ID NO:936, SEQ ID NO:937, SEQ ID NO:938, SEQ ID NO:939, SEQ ID NO:940, SEQ ID NO:941, SEQ ID

NO:942, SEQ ID NO:943, SEQ ID NO:944, SEQ ID NO:945, SEQ ID NO:946, SEQ ID NO:947, SEQ ID NO:948, SEQ ID NO:949, SEQ ID NO:950, SEQ ID NO:951, SEQ ID NO:952, SEQ ID NO:953, SEQ ID NO:954, SEQ ID NO:955, SEQ ID NO:956, SEQ ID NO:957, SEQ ID NO:958, SEQ ID NO:959, SEQ ID NO:960, SEQ ID NO:961, SEQ ID NO:962, SEQ ID NO:963, SEQ ID NO:964, SEQ ID NO:965, SEQ ID NO:966, SEQ ID NO:967, SEQ ID NO:968, SEQ ID NO:969, SEQ ID NO:970, SEQ ID NO:971, SEQ ID NO:972, SEQ ID NO:973, SEQ ID NO:974, SEQ ID NO:975, SEQ ID NO:976, SEQ ID NO:977, SEQ ID NO:978, SEQ ID NO:979, SEQ ID NO:980, SEQ ID NO:981, SEQ ID NO:982, SEQ ID NO:983, SEQ ID NO:984, SEQ ID NO:985, SEQ ID NO:986, SEQ ID NO:987, SEQ ID NO:988, SEQ ID NO:989, SEQ ID NO:990, SEQ ID NO:991, SEQ ID NO:992, SEQ ID NO:993, SEQ ID NO:994, SEQ ID NO:995, SEQ ID NO:996, SEQ ID NO:997, SEQ ID NO:998, SEQ ID NO:999, SEQ ID NO:1000, SEQ ID NO:1001, SEQ ID NO:1002, SEQ ID NO:1003, SEQ ID NO:1004, SEQ ID NO:1005, SEQ ID NO:1006, SEQ ID NO:1007, SEQ ID NO:1008, SEQ ID NO:1009, SEQ ID NO:1010, SEQ ID NO:1011, SEQ ID NO:1012, SEQ ID NO:1013, SEQ ID NO:1014, SEQ ID NO:1015, SEQ ID NO:1016, SEQ ID NO:1017, SEQ ID NO:1018, SEQ ID NO:1019, SEQ ID NO:1020, SEQ ID NO:1021, SEQ ID NO:1022, SEQ ID NO:1023, SEQ ID NO:1024, SEQ ID NO:1025, SEQ ID NO:1026, SEQ ID NO:1027, SEQ ID NO:1028, SEQ ID NO:1029, SEQ ID NO:1030, SEQ ID NO:1031, SEQ ID NO:1032, SEQ ID NO:1033, SEQ ID NO:1034, SEQ ID NO:1035, SEQ ID NO:1036, SEQ ID NO:1037, SEQ ID NO:1038, SEQ ID NO:1039, SEQ ID NO:1040, SEQ ID NO:1041, SEQ ID NO:1042, SEQ ID NO:1043, SEQ ID NO:1044, SEQ ID NO:1045, SEQ ID NO:1046, SEQ ID NO:1047, SEQ ID NO:1048, SEQ ID NO:1049, SEQ ID NO:1050, SEQ ID NO:1051, SEQ ID NO:1052, SEQ ID NO:1053, SEQ ID NO:1054, SEQ ID NO:1055, SEQ ID NO:1056, SEQ ID NO:1057, SEQ ID NO:1058, SEQ ID NO:1059, SEQ ID NO:1060, SEQ ID NO:1061, SEQ ID NO:1062, SEQ ID NO:1063, SEQ ID NO:1064, SEQ ID NO:1065, SEQ ID NO:1066, SEQ ID NO:1067, SEQ ID NO:1068, SEQ ID NO:1069, SEQ ID NO:1070, SEQ ID NO:1071, SEQ ID NO:1072, SEQ ID NO:1073, SEQ ID NO:1074, SEQ ID NO:1075, SEQ ID NO:1076, SEQ ID NO:1077, SEQ ID NO:1078, SEQ ID NO:1079, SEQ ID NO:1080, SEQ ID NO:1081, SEQ ID NO:1082, SEQ ID NO:1083, SEQ ID NO:1084, SEQ ID

NO:1085, SEQ ID NO:1086, SEQ ID NO:1087, SEQ ID NO:1088, SEQ ID NO:1089, SEQ ID NO:1090, SEQ ID NO:1091, SEQ ID NO:1092, SEQ ID NO:1093, SEQ ID NO:1094, SEQ ID NO:1095, SEQ ID NO:1096, SEQ ID NO:1097, SEQ ID NO:1098, SEQ ID NO:1099, SEQ ID NO:1100, SEQ ID NO:1101, SEQ ID NO:1102, SEQ ID NO:1103, SEQ ID NO:1104, SEQ ID NO:1105, SEQ ID NO:1106, SEQ ID NO:1107, SEQ ID NO:1108, SEQ ID NO:1109, SEQ ID NO:1110, SEQ ID NO:1111, SEQ ID NO:1112, SEQ ID NO:1113, SEQ ID NO:1114, SEQ ID NO:1115, SEQ ID NO:1116, SEQ ID NO:1117, SEQ ID NO:1118, SEQ ID NO:1119, SEQ ID NO:1120, SEQ ID NO:1121, SEQ ID NO:1122, SEQ ID NO:1123, SEQ ID NO:1124, SEQ ID NO:1125, SEQ ID NO:1126, SEQ ID NO:1127, SEQ ID NO:1128, SEQ ID NO:1129, SEQ ID NO:1130, SEQ ID NO:1131, SEQ ID NO:1132, SEQ ID NO:1133, SEQ ID NO:1134, SEQ ID NO:1135, SEQ ID NO:1136, SEQ ID NO:1137, SEQ ID NO:1138, SEQ ID NO:1139, SEQ ID NO:1140, SEQ ID NO:1141, SEQ ID NO:1142, SEQ ID NO:1143, SEQ ID NO:1144, SEQ ID NO:1145, SEQ ID NO:1146, SEQ ID NO:1147, SEQ ID NO:1148, SEQ ID NO:1149, SEQ ID NO:1150, SEQ ID NO:1151, SEQ ID NO:1152, SEQ ID NO:1153, SEQ ID NO:1154, SEQ ID NO:1155, SEQ ID NO:1156, SEQ ID NO:1157, SEQ ID NO:1158, SEQ ID NO:1159, SEQ ID NO:1160, SEQ ID NO:1161, SEQ ID NO:1162, SEQ ID NO:1163, SEQ ID NO:1164, SEQ ID NO:1165, SEQ ID NO:1166, SEQ ID NO:1167, SEQ ID NO:1168, SEQ ID NO:1169, SEQ ID NO:1170, SEQ ID NO:1171, SEQ ID NO:1172, SEQ ID NO:1173, SEQ ID NO:1174, SEQ ID NO:1175, SEQ ID NO:1176, SEQ ID NO:1177, SEQ ID NO:1178, SEQ ID NO:1179, SEQ ID NO:1180, SEQ ID NO:1181, SEQ ID NO:1182, SEQ ID NO:1183, SEQ ID NO:1184, SEQ ID NO:1185, SEQ ID NO:1186, SEQ ID NO:1187, SEQ ID NO:1188, SEQ ID NO:1189, SEQ ID NO:1190, SEQ ID NO:1191, SEQ ID NO:1192, SEQ ID NO:1193, SEQ ID NO:1194, SEQ ID NO:1195, SEQ ID NO:1196, SEQ ID NO:1197, SEQ ID NO:1198, SEQ ID NO:1199, SEQ ID NO:1200, SEQ ID NO:1201, SEQ ID NO:1202, SEQ ID NO:1203, SEQ ID NO:1204, SEQ ID NO:1205, SEQ ID NO:1206, SEQ ID NO:1207, SEQ ID NO:1208, SEQ ID NO:1209, SEQ ID NO:1210, SEQ ID NO:1211, SEQ ID NO:1212, SEQ ID NO:1213, SEQ ID NO:1214, SEQ ID NO:1215, SEQ ID NO:1216, SEQ ID NO:1217, SEQ ID NO:1218, SEQ ID NO:1219, SEQ ID NO:1220, SEQ ID

NO:1221, SEQ ID NO:1222, SEQ ID NO:1223, SEQ ID NO:1224, SEQ ID NO:1225, SEQ ID NO:1226, SEQ ID NO:1227, SEQ ID NO:1228, SEQ ID NO:1229, SEQ ID NO:1230, SEQ ID NO:1231, SEQ ID NO:1232, SEQ ID NO:1233, SEQ ID NO:1234, SEQ ID NO:1235, SEQ ID NO:1236, SEQ ID NO:1237, SEQ ID NO:1238, SEQ ID NO:1239, SEQ ID NO:1240, SEQ ID NO:1241, SEQ ID NO:1242, SEQ ID NO:1243, SEQ ID NO:1244, SEQ ID NO:1245, SEQ ID NO:1246, SEQ ID NO:1247, SEQ ID NO:1248, SEQ ID NO:1249, SEQ ID NO:1250, SEQ ID NO:1251, SEQ ID NO:1252, SEQ ID NO:1253, SEQ ID NO:1254, SEQ ID NO:1255, SEQ ID NO:1256, SEQ ID NO:1257, SEQ ID NO:1258, SEQ ID NO:1259, SEQ ID NO:1260, SEQ ID NO:1261, SEQ ID NO:1262, SEQ ID NO:1263, SEQ ID NO:1264, SEQ ID NO:1265, SEQ ID NO:1266, SEQ ID NO:1267, SEQ ID NO:1268, SEQ ID NO:1269, SEQ ID NO:1270, SEQ ID NO:1271, SEQ ID NO:1272, SEQ ID NO:1273, SEQ ID NO:1274, SEQ ID NO:1275, SEQ ID NO:1276, SEQ ID NO:1277, SEQ ID NO:1278, SEQ ID NO:1279, SEQ ID NO:1280, SEQ ID NO:1281, SEQ ID NO:1282, SEQ ID NO:1283, SEQ ID NO:1284, SEQ ID NO:1285, SEQ ID NO:1286, SEQ ID NO:1287, SEQ ID NO:1288, SEQ ID NO:1289, SEQ ID NO:1290, SEQ ID NO:1291, SEQ ID NO:1292, SEQ ID NO:1293, SEQ ID NO:1294, SEQ ID NO:1295, SEQ ID NO:1296, SEQ ID NO:1297, SEQ ID NO:1298, SEQ ID NO:1299, SEQ ID NO:1300, SEQ ID NO:1301, SEQ ID NO:1302, SEQ ID NO:1303, SEQ ID NO:1304, SEQ ID NO:1305, SEQ ID NO:1306, SEQ ID NO:1307, SEQ ID NO:1308, SEQ ID NO:1309, SEQ ID NO:1310, SEQ ID NO:1311, SEQ ID NO:1312, SEQ ID NO:1313, SEQ ID NO:1314, SEQ ID NO:1315, SEQ ID NO:1316, SEQ ID NO:1317, SEQ ID NO:1318, SEQ ID NO:1319, SEQ ID NO:1320, SEQ ID NO:1321, SEQ ID NO:1322, SEQ ID NO:1323, SEQ ID NO:1324, SEQ ID NO:1325, SEQ ID NO:1326, SEQ ID NO:1327, SEQ ID NO:1328, SEQ ID NO:1329, SEQ ID NO:1330, SEQ ID NO:1331, SEQ ID NO:1332, SEQ ID NO:1333, SEQ ID NO:1334, SEQ ID NO:1335, SEQ ID NO:1336, SEQ ID NO:1337, SEQ ID NO:1338, SEQ ID NO:1339, SEQ ID NO:1340, SEQ ID NO:1341, SEQ ID NO:1342, SEQ ID NO:1343, SEQ ID NO:1344, SEQ ID NO:1345, SEQ ID NO:1346, SEQ ID NO:1347, SEQ ID NO:1348, SEQ ID NO:1349, SEQ ID NO:1350, SEQ ID NO:1351, SEQ ID NO:1352, SEQ ID NO:1353, SEQ ID NO:1354, SEQ ID NO:1355, SEQ ID NO:1356, SEQ ID

NO:1493, SEQ ID NO:1494, SEQ ID NO:1495, SEQ ID NO:1496, SEQ ID NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, and SEQ ID NO:1500; or to a complement of said sequence.

5. An isolated protein encoded by an isolated polynucleotide of claim 1.
6. An isolated protein encoded by an isolated polynucleotide of claim 2.
7. An isolated protein encoded by an isolated polynucleotide of claim 3.
8. An isolated protein encoded by an isolated polynucleotide of claim 4.